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INDICE

ALCAD Digital Antenna 5G

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GA-047 (Z19000199) 4 PEZZI DI NEO-047

SPECIFICA	Z19000189	Z19000187
MODEL	NEO-047 / GA-047	NEO-087
FREQUENCY		
Band	UHF	
Channels	21 ÷ 48	
Frequency range UHF	470 ÷ 694 MHz	
LTE protection	@ 700MHz	
Gain	16.0 dBi	18 dBi
LOSS		
LTE700 rejection	≥ 10 dB	
ELECTRICAL		
Front /back ratio	30.0 dB	32.0 dB
Impedance	75 Ohm	
MECHANICAL		
Wind loading H/V	105 / 92 N	125 / 95 N
Beamwidth Horizontal / Vertical	28° / 34°	30° / 28°
Protection index	IP53	IP55
Product Length	800 mm	1160 mm
Packing QTY	1 / 4 (GA-047)	1

NEO-087 (Z19000187) 1 PEZZO

Main Features:

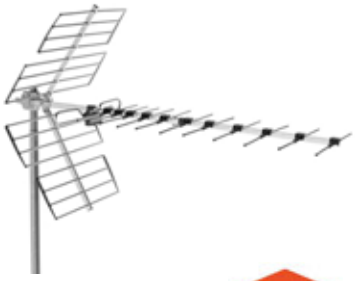
- Interference protection from LTE 700 signals
- Quick and easy installation with semi-assembled aerials
- No needs for tools
- Mechanical filtering for higher gain
- Reliable high-quality aerials secures end-consumer satisfaction
- The reflectors help avoid interference from the signal received from the back of the antenna
- Designed to cover thew UHF band up to 790 MHz

MX-047 (Z19000109) 1 PEZZO

SPECIFICA	Z19000109
MODEL	MX-047
FREQUENCY	
Band	UHF
Channels	21 ÷ 48
Frequency range UHF	470 ÷ 694 MHz
LTE protection	@ 700MHz
Gain	15.5 dBi
LOSS	
LTE700 rejection	≥ 10 dB
ELECTRICAL	
Front /back ratio	27.0 dB
Impedance	75 Ohm
MECHANICAL	
Wind loading H/V	111 / 128 N
Beamwidth Horizontal / Vertical	34° / 35°
Protection index	IP53
Product Length	1152 mm
Packing QTY	1

ALCAD Digital Antenna 5G

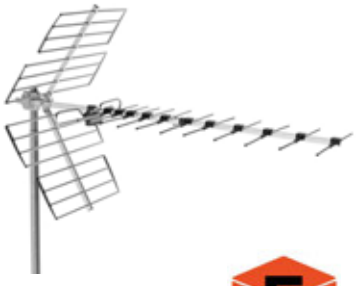
BU-117 (Z19000110) 12 PEZZI DI BU-117



GA- 457R (Z19000112A) 5 PEZZI DI BU-457R

SPECIFICA	Z19000110	Z19000112A
MODEL	BU-117	BU-457R
FREQUENCY		
Band	UHF	
Channels	21 ÷ 48	
Frequency range UHF	470 ÷ 694 MHz	
LTE protection	@ 700MHz	
Gain	12.5 dBi	14.0 dBi
LOSS		
LTE700 rejection	≥ 10 dB	
ELECTRICAL		
Front /back ratio	21.0 dB	25 dB
Impedance	75 Ohm	
MECHANICAL		
Wind loading H/V	40 / 49 N	89 / 94 N
Beamwidth Horizontal / Vertical	34° / 35°	28° / 34°
Protection index	IP53	
Product Length	1146 mm	1298 mm
Packing QTY	12	5

GAN-267 (Z19000198) 10 PEZZI DI BU-267



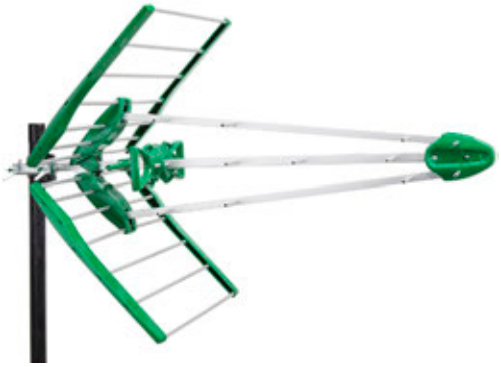
GA-452 (Z19000203) 5 PEZZI DI BU-452

SPECIFICA	Z19000198	Z19000203
MODEL	BU-267	BU452
FREQUENCY		
Band	UHF	
Channels	21 ÷ 48	
Frequency range UHF	470 ÷ 694 MHz	
LTE protection	@ 700MHz	
Gain	13.0 dBi	14 dBi
LOSS		
LTE700 rejection	≥ 10 dB	
ELECTRICAL		
Front /back ratio	23.0 dB	25.0 dB
Impedance	75 Ohm	
MECHANICAL		
Wind loading H/V	48 / 70 N	89 / 94 N
Beamwidth Horizontal / Vertical	26° / 31°	28° / 34°
Protection index	IP53	
Product Length	1087 mm	1298 mm
Packing QTY	1	5 (GA-452)

Main Features:

- Interference protection from LTE 700 signals
- Quick and easy installation with semi-assembled aerials
- No needs for tools
- Mechanical filtering for higher gain
- Reliable high-quality aerials secures end-consumer satisfaction
- The reflectors help avoid interference from the signal received from the back of the antenna
- Designed to cover thew UHF band up to 790 MHz

IKUSI Digital Antenna 5G



IK1818

- The key feature of the **FLASHD** LTE antennas is that they provide a strong rejection of LTE while maintaining current gains, very often without the need to incorporate a filter.
- Unfold with a simple press of a button.

SPECIFICA	IK1818
FREQUENCY	
Band	UHF
Channels	21 ÷ 48
Frequency range UHF	470 ÷ 694 MHz
LTE protection	@ 700MHz
Gain	17.0 dBi
ELECTRICAL	
Front /back ratio	≥ 20.0 dB
Impedance	75 Ohm
MECHANICAL	
Wind loading H/V	105 / 150 N
Beamwidth Horizontal / Vertical	40° / 50°
Protection index	IP55
Product Length	1050 mm
Packing QTY	1

IK1824

- The smallest antenna range **COMPACT** for reception of TV signals in the UHF band, formed by a dihedral reflector made up of four aluminium tubes and a dipole.
- Minimum packaging volume for transport and easy assembly without tools

SPECIFICA	IK1824
FREQUENCY	
Band	UHF
Channels	21 ÷ 48
Frequency range UHF	470 ÷ 694 MHz
LTE protection	@ 700MHz
Gain	14.0 dBi
ELECTRICAL	
Front /back ratio	≥ 16.0 dB
Impedance	75 Ohm
MECHANICAL	
Wind loading H/V	18 / 23 N
Beamwidth Horizontal / Vertical	60° / 80°
Protection index	IP55
Product Length	800 mm
Packing QTY	1

IK1825

- The smallest antenna range **NANO** for reception of TV signals in the UHF band, formed by a dihedral reflector made up of four aluminium tubes and a dipole.
- Clamping system for masts Ø 25 to 50 mm

SPECIFICA	IK1825
FREQUENCY	
Band	UHF
Channels	21 ÷ 48
Frequency range UHF	470 ÷ 694 MHz
LTE protection	@ 700MHz
Gain	12.0 dBi
ELECTRICAL	
Front /back ratio	≥ 16.0 dB
Impedance	75 Ohm
MECHANICAL	
Wind loading H/V	15 / 20 N
Beamwidth Horizontal / Vertical	60° / 80°
Protection index	IP55
Product Length	500 mm
Packing QTY	1

J6700H - J6701 - J6711 Profiler Revolution

J6700H

4G LTE

5G LTE

SPECIFICA	J6700H	J6701	J6711
Inputs	4 VHF/UHF + 1FM		1 FM + 1 DAB/VHF + 2 UHF
Outputs	1 main port FM-VHF-UHF 1 test port (-30 dB) FM-VHF-UHF		1 main port FM-DAB-VHF-UHF 1 test port (-30 dB) FM-DAB-VHF-UHF
Frequency range	FM: 88 ÷ 108 MHz I VHF: 174 ÷ 240 MHz I UHF: 470 ÷ 862 MHz		
LTE Protection	Automatic selection: 694 MHz, 790 MHz or OFF		
Input level (dBµV)	FM: 37 ÷ 77 I VHF: 40 ÷ 109 UHF: 40 ÷ 109		FM: 37 ÷ 77 I VHF: 45 ÷ 109 UHF: 45 ÷ 109
FM output power (60 dB/IM3)	113 dBµV		
VHF/UHF output power (60dB/IM3)	120 dBµV	117 dBµV	114 dBµV
VHF/UHF output power (35 dB/IM3)	131 dBµV	126 dBµV	
VHF/UHF output power with 1 MUX	118 dBµV	113 dBµV	108 dBµV
VHF/UHF output power with 6 MUX	113 dBµV	110 dBµV	107 dBµV
Conversion	Yes (from any VHF-UHF channel to any VHF-UHF channel)		
Add MUXes	Per 1 or 2 or 3 or 4 or 5 or 6 Muxes		
Number of channels	More than 50 (32 filters)		More than 50 (15 filters)
Gain	FM: 35 dB VHF: > 75 dB UHF: > 75 dB	FM: 35 dB VHF: > 65 dB UHF: > 65 dB	FM: 35 dB VHF: > 60 dB UHF: > 60 dB
Gain adjustment	FM: 20 dB I VHF / UHF: Channel AGC		
General attenuator	20 dB		
VHF/DAB attenuator	15 dB		
Slope adjustment	15 dB		-
Selectivity	50 dB / 1 MHz		
Output MER	VHF: 35 dB I UHF: 35 dB		
ESD protection	All inputs		
Remote voltage / current for preamp	12 or 24 Vdc 100 mA (total for the 4 inputs)		12 or 24 Vdc 100 mA (total for the 3 inputs)
SD port	Yes (for copy configuration)		No
Operating temperature	-5° ÷ +50° C		
Power Supply	100 ÷ 240 Vac		
Power Consumption	15 W	14 W	12 W
Dimensions	217 x 165 x 59 mm		
Weight	0,8 kg		

The most cost-efficient channel convertor solution on the market, with great flexibility to assign any VHF/UHF input to any VHF/UHF output. Very easy and fast installation, without the need for a field strength meter Extremely sharp filters , 50 dB on adjacent channels and integrated 4G/5G/LTE filters. The Profiler Revolution can filter and amplify very weak signals. This is something that our test users could not do in the past with other equipment. Perfect headend for your fibre installation to equalise and optimise the signals. Excellent quality of the output signal , the Profiler Revolution optimises the incoming digital terrestrial signal to assure supreme video quality on the end-users' TV-screens.

Main Features:

- programmable terrestrial filter amplifier
- 5 inputs: 4 VHF (DAB) / UHF and 1 FM
- read-out of input level strength: no need for field strength meter
- can process and convert more than 50 channels
- sharpest filters on the market (50 dB on adjacent channels)
- real-time AGC on all individual multiplexes
- flex matrix: complete flexibility in assigning filters from any input
- made in Europe, for worldwide application
- the Profiler Revolution facilitates straightforward configuration and is the most cost-efficient Profiler on the market
- configuration possible in different languages (English, French, Italian, Spanish)
- prepare your configuration file with uCloud
- RED compliant.

J6714 Profiler Revolution Lite

SPECIFICA	J6714
Inputs	3 VHF/UHF (wideband)
Outputs	1 main (VHF-S UHF)
Input frequency range	VHF: 174 ÷ 240 MHz - UHF: 470 ÷ 694 MHz
Output frequency range	174 ÷ 862 MHz
LTE Protection	694 MHz, (5G)
Input level	VHF / UHF: 37 ÷ 109 dBµV
SAT output power (-35 dBc/IM3 2 carriers)	119 dBµV
FM output power (60 dB/IM3)	113 dBµV
VHF/UHF output power (60dB/IM3)	114 dBµV
VHF/UHF output power (36 dB/IM3)	125 dBµV
VHF/UHF output power with 1 MUX	108 dBµV
VHF/UHF output power with 6 MUX	108 dBµV
VHF/UHF output power with 15 MUX	105 dBµV
VHF/UHF output power with 32 MUX	102 dBµV
Conversion	Yes (from any VHF-UHF channel to any VHF-S-UHF channel)
Add channels	Per 1, 2, 3, 4, 5 or 6 MUXes
Number of channels	More than 50 (32 filters)
Gain	VHF: > 65 dB - UHF: > 65 dB
Gain adjustment	Channel AGC
Noise figure	7 dB
General attenuator	20 dB
VHF/DAB attenuator	15 dB
Selectivity	50 (dB/1MHz)
Return loss	10 dB
Output MER	VHF: 35 dB - UHF: 35 dB
ESD protection	All inputs
Operating temperature	-5° ÷ +50° C
Power Supply	12 Vdc
Power Consumption	9 W
Dimensions	190 x 165 x 59 mm
Weight	0,65 kg

Main Features:

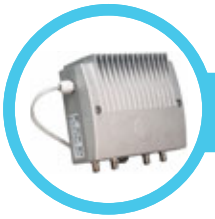
- Read-out of input level strength: no need for field strength meter
- Can process up to > 50 channels
- Sharpest filters on the market (50 dB on adjacent channels)
- Real-time AGC on all individual multiplexes
- Flex matrix: complete flexibility in assigning filters from any input
- Made in Europe, for worldwide application.
- Patented technology!
- With the Auto-scan function, the Profino Revolution Lite is really easy to install
- RED compliant (selectivity classification 0-1-2-3-4)

5G LTE

Programmable terrestrial filter amplifier:
AUTOSCAN FUNCTION / 3 VHF/UHF inputs / > 50 Channels (32 filters) / 108 dBµV / AGC / Power over Coax / 12Vdc Power Supply Included

The Profino Revolution Lite is a light version digital Profiler with Auto-scan function.

The KIT6714 has 3 VHF/UHF inputs
> 50 Channels can be filtered, amplified and converted
The filters on adjacent channels are extremely sharp
DC powering via output
12Vdc Power Supply Included



PRODOTTO CORRELATO TX323170

PRODOTTO CORRELATO 3LHE1040P

Smart Amplifier Kit J747xxx

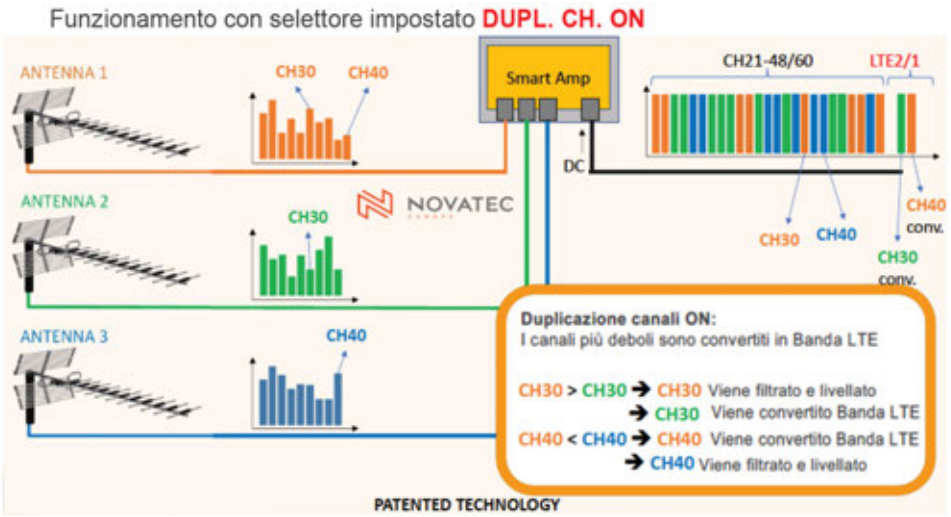
J7473L2

5G LTE

NEW 90dB

Smart Amp caratteristiche principali:

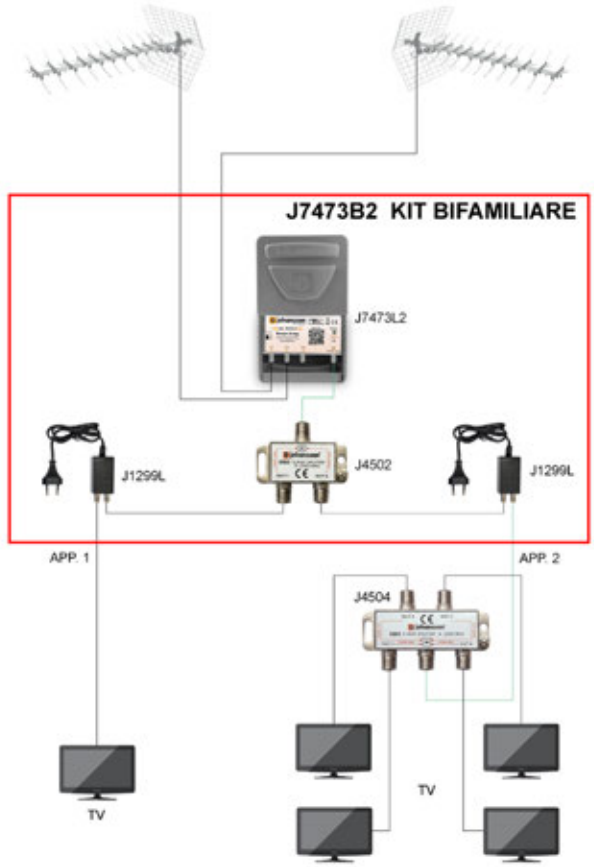
- La scansione e la memorizzazione dei canali in ingresso, compreso il relativo filtraggio, sono completamente automatici
- Tutti i canali in uscita sono equalizzati ed hanno la stessa potenza
- Ottimo nelle installazioni con canali adiacenti, con livelli di segnale e qualità diversi
- I canali con la stessa frequenza e diversa qualità vengono scelti e gestiti automaticamente
- Riconoscimento automatico delle bande di ricezione nei diversi Stati



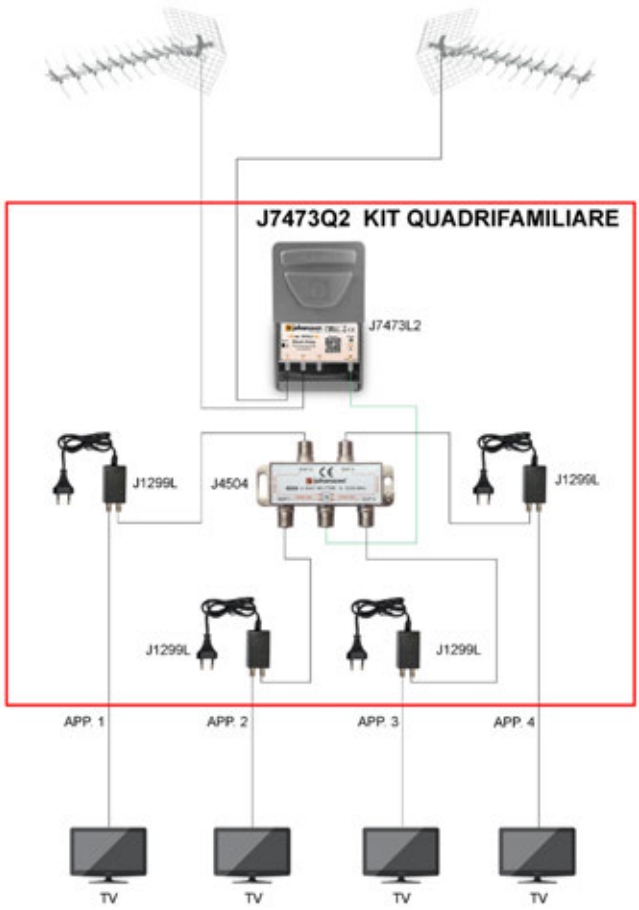
SPECIFICA	UNITA'	J7471L2	J7472L2	J7473L2	J7472S2 / J7473S2
Tipologia KIT SMART AMP		Monofamiliare	Monofamiliare	Monofamiliare	Monofamiliare 1 uscita
Ingressi	n	1	2	3	2 / 3
Filtri LTE	-	5G (> C48)			
Frequenza ingresso	-	VHF BIII + UHF (Selezione automatica della larghezza di banda per nazione)			
Soprressione frequenza LTE	db	> 40			
Livello di uscita - singola uscita	dBµV	90			
Gamma di frequenza	MHz	174 ÷ 862			
Separazione canali adiacenti	dB	> 35			
Sensibilità ingresso	dBµV	minimo 40			
Alimentatori ed accessori	n	-			1x 12 Vdc - 400 mA
Alimentazione ed assorbimento	-	12 Vdc - 275 mA (DC su coax)		12 Vdc - 300mA (DC su coax)	
Dimensioni	mm	120 x 115 x 50			
Temperatura operativa	°C	-20 ÷ +50			

SPECIFICA	UNITA'	J7472B2 / J7473B2	J7472T2 / J7473T2	J7472Q2 / J7473Q2	J7472HP2 / J7473HP2
Tipologia KIT SMART AMP		Bifamiliare 2 uscite ind.	Trifamiliare 3 uscite ind.	Quadrifamiliare 4 usc. ind.	Condominiale 1 uscita
Ingressi	n	2 / 3			
Filtri LTE	-	5G (> C48)			
Frequenza ingresso	-	VHF BIII + UHF (Selezione automatica della larghezza di banda per nazione)			
Soprressione frequenza LTE	db	> 40			
Livello di uscita - singola uscita	dBµV	86	84	82	121 reg. - 30 dB
Gamma di frequenza	MHz	174 - 862			
Separazione canali adiacenti	dB	> 35			
Sensibilità ingresso	dBµV	minimo 40			
Alimentatori ed accessori	n	2x 12 Vdc-400 mA + J4502	3x 12Vdc-400 mA + J4503	4x 12Vdc-400 mA + J4504	1x 12 Vdc-400 mA+Booster 34db
Alimentazione ed assorbimento	-	12 Vdc - 275 mA (DC su coax)		12 Vdc - 300mA (DC su coax)	
Dimensioni	mm	120 x 115 x 50			
Temperatura operativa	°C	-20 ÷ +50			

SMART Amplifier Kit J747xxx



NEW KIT



J9780ETH, J9780 - Digital IF/IF Solutions

J9780ETH is the new generation converter for satellite signals to be used in MDU's.
The compact plug-and-play module has a straightforward and easy configuration.
Perfect for equalizing and optimizing satellite transponders as input for your fiber headend.

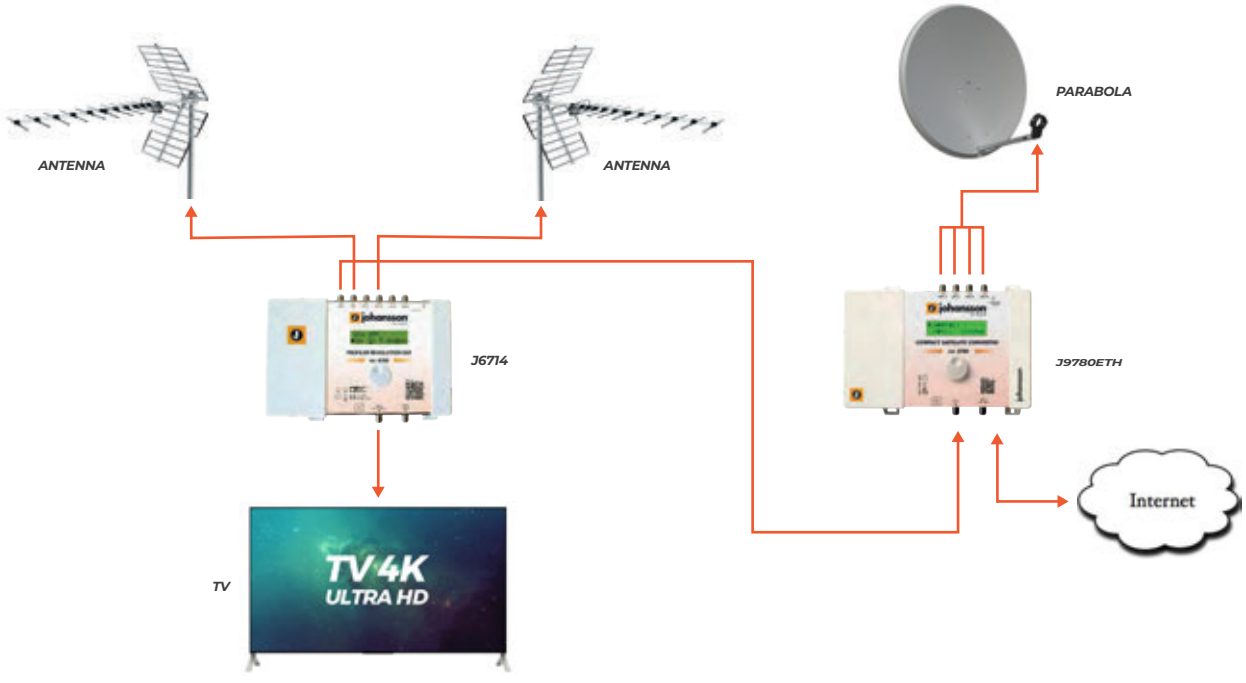
Main Features:

- Multi-functional satellite IF-IF headend: convertor, stacker, equalizer, optimizer
- ethenet port for remote access and web interface
- programmable satellite IF converter
- up to 32 DVB-S/S2 transponders
- 4 satellite inputs (Quattro/Quad/Wideband LNB)
- realtime AGC on all individual transponders
- read-out of input level strength: no need for field strength meter
- 110 dBµV (output level)
- auto-tuning functionality
- can be used in fiber optic system with up to 128 passive splits

SPECIFICA	J9780ETH	J9780
Inputs	4 SAT (wideband/quattro/quad)	
Outputs	1x main (SAT) + 1x test port (-30 dB)	
Frequency range IO	SAT: 290 MHz ÷ 2340 MHz	
LTE Protection	Automatic selection: 694 MHz, 790 MHz or OFF	
Input level	40 ÷ 95 dBµV	
SAT output power (per transponder)	110 dBµV	
SAT output power (35 dB/IM3)	132 dBµV	
SAT output level flatness	< 1 dB	
SAT output level adjustment	> 40 dB	
Slope adjustment	15 dB	
SAT Gain	> 40 dB	
Number of transponders	32	
Conversion	Yes (all 32 transponders)	
Transponder Bandwidth	1 MHz ÷ 77 MHz (per 1 MHz steps)	
Selectivity	35 dB (@ 1 MHz)	
Return loss	10 dB	
Auto tuning	Yes (incoming transponders are copied from input 1 to output)	
ESD protection	All inputs	
DC @ SAT input	13 V / 18 V / & 0 / 22 kHz selectable by SW	
DC Load current @ SAT input	500 mA	
Ethernet port	Yes (for web interface / remote access)	-
SD port	No	Yes (for copy configuration)
Operating temperature	-5° ÷ +50° C	
Power Supply	100 ÷ 240 Vac	
Power Consumption	25 W	
Dimensions	217 x 165 x 59 mm	
Weight	0,8 kg	

J9780ETH - Digital CSCR Solutions

SCHEMA COLLEGAMENTO



ONE+ SAT, ONE+ - Programmable digital amplifiers

ONE+ SAT
IK2864

ONE+
IK2865

The ONE+ and ONE+ SAT are programmable digital amplifiers, designed to selectively filter TV channels. Suitable for both household requirements and for collective housing, they are the perfect solution for managing signals of different frequencies and amplitudes.
In addition to UHF signals, FM and VHF signals are also amplified. The ONE+SAT model also amplifies FI satellite signals, as well as signals from an extension input. The individual adjustment of each filter allows them to be adapted to the specific situations of each TV channel in question, in addition to offering the possibility of being able to work in converter mode, transferring the TV channel to different frequency from the original one. The reading system for the input power allows the levels of the output channels to be automatically equalised.
The amplifier is configured through the user interface that is integrated into the equipment itself, formed by a joystick and an OLED screen.

Main Features:
- Unique on the market with over 131 dBµV in output level (IMD3 -36 dB)
- Automatic installation in less than 10 seconds
- No external programmer is required; programming can be carried out using the equipment itself
- 32 tunable variable bandwidth VHF/UHF filters from 1 to 4 channels
- Input greater dynamic range (allows operation with weaker signals)
- Configuration copy & software field upgrade over microSD card
- Cloning of the internal configuration with uploading onto a microSD card
- Equipment locking using a security code.

4G LTE

5G LTE

SPECIFICA	IK2864 - IK2865				
Inputs	BI / FM	EXT (VHF / UHF) (**IK2864**)	BIII / DAB	UHF 3 UHF 2 UHF 1	FI-SAT (**IK2864**)
Bands covered	47 ÷ 108 MHz	47 ÷ 862 MHz	174 ÷ 240 MHz	470 ÷ 862 MHz 470 ÷ 790 MHz 470 ÷ 694 MHz	950 ÷ 2400 MHz
N. programmable filters N. channels per filter	-		32 1 - 4		-
Filter bandwith	-		7 / 8 / DAB	8 / 16 / 24 / 32	-
Input level	40 ÷ 90 dBµV	60 ÷ 80 dBµV	40 ÷ 100 dBµV		50 ÷ 80 dBµV
AGC	-		Yes		-
End-of-channel selectivity ± 1 MHz	-		35 dB		-
Output level OUT 1	131 dBµV (IMD3 -36 dB) ; 122°				122 dBµV (IMD3 -35 dB) OUT 1 only
Output level OUT 1 + 2 (IK2864)	128 dBµV (IMD3 -36 dB) ; 119°				
VHF / UHF output equalization	-		±1 dB		-
Output regolation	25 dB	20 dB	30 dB		20 dB
Slope control	-			0 ÷ 6 dB	0 ÷ 9 dB
Noise figure	< 6 dB				
Test output	-30 dB				
Output voltage				Off / 12 Vdc 100 mA / 24 Vdc 200 mA	Bypass / 13 Vdc 300 mA / 18 Vdc 300 mA
Tone	-				0 ÷ 22 Khz
Operating temperature	-5°C ÷ +50°C				
Power Supply	100 ÷ 240 Vac				
Power Consumption	25 W (**IK2865**) - 17 W (**IK2864**)				
Dimensions	300 x 250 x 40 mm				
Weight	2.2 kg				

CAD-824 (Z19040258), CAD-834 (Z19040259) - Programm. ampli

CAD-824

5G LTE

CAD-834

CAD-824 (Z19040258)
CAD-834 (Z19040259)
High selectivity programmable amplifier to filter, convert and equalize up to 32 terrestrial channels. Ideal for home TV distribution or MATV systems.
Programmable amplifier with 4 UHF/BIII/DAB inputs, 1 FM/BI input and LTE700 compatible. Its 32 digital filters are easy to program thanks to the LCD 32-digit display with keyapd and autosettings option. In addition, thanks to the Automatic Gain Control of the amplifier we can obtain a stable output level, which can be adjusted to our needs, without worrying about input signal fluctuations.
Moreover the chassis made of zamak gives the amplifier the maximum shielding and sturdiness.

Main Features:
- Output level 120 dBµV
- 32 programmable filters with high selectivity
- LTE700 / No LTE
- ***Mast preamplifier remote power function***
- Easy and fast autoconfiguration with display
- External power supply for easy maintenance
- 4x UHF/BIII-BI inputs + 1 FM/BI input
- Channel conversion
- Automatic Gain Control with output level adjustment
- Extra gain regulation per channel
- Robust chassis made of zamak

SPECIFICA	CAD-824 (Z19040258)	CAD-834 (Z19040259)
TERRESTRIAL		
Inputs	4x UHF / BIII / DAB - 1x FM/BI	
Frequency range	UHF (470 ÷ 862 MHz) - BIII/DAB (170 ÷ 240 MHz) - FM/BI (40 ÷ 108 MHz)	
Programmable filters	32	
Number of channels per filter	1	
Input level	UHF (35 ÷ 95 dBµV) - BIII/DAB (170 ÷ 240 dBµV) - FM/BI (40÷108 dBµV)	
Remote power	12 ÷ 24 Vdc / 200 mA (max 4 input)	
Selectivity	40 @ 1MHz	
Maximum gain	UHF / BIII / DAB 80 dB - FM / BI 30dB	
Output level	1x 120 dBµV (IM3 DIN 45004B-60dBc) - 95 ÷ 115 dB adjustable	
Gain adjustment	UHF CAG (50 dB) - FM adjustable (30 dB)	
Equalization margin	UHF 0 ÷ 10 dB	
Noise figure	< 6 dB	
SATELITE		
number of inputs	-	1
Frequency range	-	950 ÷ 2150 MHz
Input level	-	47 ÷ 83 dB
Maximum gain	-	45 dB
Output level	-	118 dBµV (IMD3 a -35 dB)
Gain adjustment	-	adjustable (20 dB)
Noise figure	-	< 7 dB
LNB power supply	-	0 - 13 - 18 Vdc / Bypass 350 mA 0 / 22 Khz
GENERAL		
Mains voltage	100 ÷ 240Vac - 11 W	100 ÷ 240Vac - 13 W
External voltage	9 Vdc - 1 A	9 Vdc - 1,2 A + LNB
Operating temperature	-10° ÷ +60° C	
Dimensions	215 x 218.4 x 45 mm	
Protection index	IP31	

CA-662 (Z19040132), CA-663 (Z19040149) - Multiband amplifiers

CA-662

CA-663

SPECIFICA	CA662 (Z19040132) / CA-663 (Z19040149)			
Inputs Outputs	4 / 1 / 1		5 / 1 / 1 (**CA-663**)	
Frequency range	UHF 1 470 ÷ 694 MHz	UHF 2 470 ÷ 694 MHz	BIII / DAB 160 ÷ 260 MHz	BI / FM 47 ÷ 108 MHz
LTE Filter	LTE700		-	
Gain	45/30 dB (±1.0 dB) 45 / 30 dB (±1.0 dB) (**CA-663**)		30 dB (±1.0 dB) 32 dB (±1.0 dB) (**CA-663**)	32 dB (±2.0 dB)
Gain adjustment	16 dB		20 dB	
Output level	117 dBµV DIN 45004B 114 dBµV (IMD3 -60dB) 107 dBµV (IMD2 -60 dB)			
Noise figure	9 dB (±1.0 dB)		7 dB (±1.0 dB)	8 dB (±1.0 dB)
Output voltage	24 V - 60 mA			
Mains voltage	99 ÷ 264 Vac - 8,8 W 99 ÷ 264 Vac - 11,7 W (**CA-663**)			
ExternaL VOLTAGE	24 Vdc - 300mA 24 Vdc - 410mA (**CA-663**)			
Operating temperature	- 10 ÷ +65° C			
Protection index	IP20			

5G LTE

CA-672 (Z19040144) - Multiband amplifiers

CA-672

5G LTE

SPECIFICA	CA672 (Z19040144)			
Inputs Outputs	5 / 1 / 1			
Frequency range	SAT 950 ÷ 2150 MHz	UHF 1/2 470 ÷ 694 MHz	BIII / DAB 160 ÷ 260 MHz	BI / FM 47 ÷ 108 MHz
LTE Filter	-	LTE700	-	
Gain	43 dB (±1.0 dB)	45/30 dB (±1.0 dB)	30 dB (±1.0 dB)	
Gain adjustment	20 dB	16 dB	20 dB	
Adjust. equalization range	0/8	-		
Output level	118,5 dBµV (IMD3 -35dB) 112 dBµV (IMD2 -35 dB)	117 dBµV DIN 45004B 114 dBµV (IMD3 -60dB) 107 dBµV (IMD2 -60 dB)		
Noise figure	7 dB (±1.0 dB)	8 dB (±1.0 dB)	7 dB (±1.0 dB)	
Output voltage	0 / 13 / 18 V 350 mA 0 / 22 Khz	24 Vdc - 60 mA	-	
Potection index	24 Vdc - 700 mA			
Operating temperature	-10° ÷ +65° C			
Protection index	IP50			

CA-662 (Z19040132), CA-663 (Z19040149), CA-672 (Z19040144)
Broadband amplifier for head-end, with four inputs and different frequency configurations, compatible with the transmission of LTE700 and LTE800 mobile telephone signals. The built-in power supply unit can feed a preamplifiers by means of a switch. Optional external power supply for redundant power. Output test-point to adjust the installation without having to disconnect the TV signal.
Large-scale digital and analogue MATV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of switches and regulators which control the gain at each input.
Made from zamak and galvanised steel plate to provide maximum shielding. Input and output connectors in the opposite sides to facilitate installation. F-type connectors.

DA-601 (Z19040155), DA-611 (Z19040157) - Distribution amplifiers

DA-601

SPECIFICA	DA-601 (Z19040155)	
Inputs	1 + test	
Outputs	1 + test	
Frequency range	5 ÷ 30 MHz (Band RETURN)	47 ÷ 862 MHz (Band TV)
Gain	20 dB (±1.0 dB)	34 dB (±1.0 dB)
Gain adjustment		20 dB
Adjust. equalization range		18 dB
Output level	114 dBµV DIN 45004B 111 dBµV (IMD3 -60dB) 105 dBµV (IMD2 -60 dB)	
Input / output test point	-30 dB	
Return loss i/O	≥ 10 dB	
Noise figure	8,5 db (±1.0 dB)	
Power supply	24 Vdc - 200 mA	
Operating temperature	-10° ÷ +65° C	
Protection index	IP50	
Dimensions	245 x 160 x 60 mm	

5G LTE

DA-611

SPECIFICA	DA-611 (Z19040157)		
Inputs	1 + test		
Outputs	1 + test		
Frequency range	5 ÷ 30 MHz (Band return)	47 ÷ 862 MHz (Band TV)	950 ÷ 2150 MHz (Band SAT)
Gain	20 dB (±1.0 dB)	34 dB (±1.0 dB)	42 dB (±1.0 dB)
Gain adjustment	-	20 dB	
Fixed equalization	-		4 dB
Adjust. equalization range	-	18 dB	0/7 dB
Output level	114 dBµV (DIN 45004b 111 dBµV (IMD3 -60dB) 105 dBµV (IMD2 -60 dB)	117 dBµV DIN 45004B 114 dBµV (IMD3 -60dB) 107 dBµV (IMD2 -60 dB)	118,5 dBµV (IMD3 -35dB) 112 dBµV (IMD2 -350 dB)
Input / output test point	-30 dB		
Return loss i/O	≥ 10 dB	≥ 10 dB	≥ 5 dB
Noise figure	8,5 dB (±1.0 dB)	8,5 dB (±1.0 dB)	8,0 dB (±1.0 dB)
Power supply	24 Vdc - 200 mA		
Operating temperature	-10° ÷ +65° C		
Protection index	IP50		
Dimensions	245 x 160 x 60 mm		

CAD-804 (Z19040256) - CAD-814 (Z19040257)
Broadband distribution amplifier for terrestrial TV (117 dBµV). It has a gain control and variable slope control. It amplifies the return path from 5 to 30 MHz. Fed by a external power supply model FF-200 (included with the amplifier). The input and output test points permit checking and adjusting the installation with no need to disconnect the TV signal.
It can be used as a distribution amplifier in large installations or cable networks. It can also be used as a line amplifier in small cable networks. These installations usually have long runs of cable that attenuate and unbalance the signal, with higher frequency channels being more attenuated. Distribution amplifiers compensate this loss by mens of the slope control, while amplifying the signal and adding as little noise as possible.
Made from zamak and galvanised steel plates to provide maximum shielding. Input and output connectors on opposite sides to facilitate installation. F-type connectors.

CA-370 (Z19040152) - Multiband amplifiers

CA-370

SPECIFICA	CA-370 (Z19040152)				
Inputs / Outputs	3 / 2				
Frequency range	BI (40 ÷ 70 MHz)	FM (88 ÷ 108 MHz)	BIII/DAB (160 ÷ 260 MHz)	UHF 1 (470 ÷ 694 MHz)	UHF 2 (470 ÷ 694 MHz)
Gain (±2.0 dB)	28 dB	18 dB	28 dB	38dB	
Adjustable gain range	20 dB			16 dB	
Output test point	- 30 dB (±2.0 dB)				
Output level	2x 110 dBµV (DIN 45004b 2x 107 dBµV (IMD3 -66dB) 2x 100 dBµV (IMD2 -60 dB)				
Noise figure	5 dB (±1.5 dB)			6 dB (±1.5 dB)	
Isolation	≥ 13 dB				
Output voltage	-			24 Vdc - 50 mA	-
Operating temperature	-10° ÷ +65° C				
Protection index	IP20				

CA-370 (Z19040152)
Head-end broadband amplifier with three inputs and two outputs. It has two UHF inputs with LTE700 rejection filters and another input for BI/FM/BIII/DAB. The two outputs have the same output level, with a maximum of 110 dBµV, and facilitate the creation of star-shaped distributions using splitters. UHF1 input can power 24 V preamplifiers with up to 60 mA. The installer can easilly switch the preamplifier power on and off. The amplifier is powered with an external power supply, included with the product. It is also sold sepparately as FF-300 as a spare part, to be used for maintainance or repairs. Its zamak chassis provides the amplifier with maximum shielding, while also making it very robust. The F-type connections also allow for minimum load mismatch and maximum shielding.

AI-271 (Z19040255) - Multiband amplifiers

AI-271

SPECIFICA	AI-271 (Z19040255)	
Inputs / Outputs	1 / 2	
Frequency range	VHF (40 ÷ 318 MHz)	UHF (470 ÷ 696 MHz)
Gain	14 dB (±2.0 dB)	24 dB (±2.0 dB)
Adjust. gain range	16 dB	12 dB
Output level	102 dBµV DIN 45004B 99 dBµV (IMD3 -60dB) 88 dBµV (IMD2 -60 dB) 86 dBµV (CTB -60 dB) 82 dBµV (CSO -60 dB) 89 dBµV (XMOD -60 dB)	
Noise figure	< 4 dB dB	< 5 dB
Return loss	≥ 10 dB	
LTE band rejection	≥ 35 dB	
Mains voltage	90 ÷ 264 Vac - 1,5 W	
Operating temperature	-5° ÷ +60° C	
Protection index	IP30	

AI-271 (Z19040255)
Broadband apartment amplifier for terrestrial TV, LTE700 compatible, with built-in power supply unit. It amplifies the VHF and UHF bands separately and has an independent gain control for each band. It includes two outputs to make the distribution to two or more televisions.
Designed to enlarge analogue and digital terrestrial TV installations within an apartment or house. It amplifies the TV signal so a distribution with several new outlets can be made from the signal of one TV outlet or from the coaxial cable entering the house. The levels are easily adjusted by means of the two gain controls.
Fresh look, with a case made of ABS plastic for better impact resistance, with an internal zamak chassis which gives maximum shielding and extended range power supply. Easy wall fixing thanks to the supplied screwsand wall-plug or, alternatively, DIN rail installation by means of an adapter (not supplied). F type connectors.

CA-360 (Z19040141) - Multiband amplifiers

CA-360

SPECIFICA	CA-360 (Z19040141)				
Inputs / Outputs	3 / 2				
Frequency range	BI (40 ÷ 70 MHz)	FM (88 ÷ 108 MHz)	BIII/DAB (160 ÷ 260 MHz)	UHF 1 (470 ÷ 694 MHz)	UHF 2 (470 ÷ 694 MHz)
Gain	32 dB (±1 dB)	22 dB (±1 dB)	32 dB (±1 dB)	42dB (±2 dB)	
Adjust. gain range	20 dB			16 dB	
Output test point	- 30 dB (±0,5 dB)				
Output level	2x 110 dBµV DIN 45004B 2x 107 dBµV (IMD3 -66dB) 2x 100 dBµV (IMD2 -60 dB)				
Noise figure	5 dB (±1.5 dB)			6 dB (±1.5 dB)	
Isolation	≥ 13 dB				
Output voltage	-			24 Vdc - 50 mA	-
Mains voltage	230 Vac - 7 W				
Operating temperature	-10° ÷ +65° C				
Protection index	IP20				

CA-360 (Z19040141)
Broadband amplifiers for head-end, compatible with transmission of LTE700 and LTE800 mobile telephone signals. Includes a rejection filter for LTE700/800 signals. Equipped with three inputs to amplify and combine the signals coming from the antennas. Power supplied automatically to preamplifier. Available on request in 125 and 240 Vac.
Medium-sized individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. It is used as the head-end amplifier of the installation. The two outputs facilitate star-shaped distributions from the head-end through the use of splitters.
Made from ABS plastic, with an internal zamak chassis of which provides maximum shielding. F-type connectors which affords a connection with minimum mismatching and high shielding. Power supply unit insulated from the rest of the high frequency circuit, complying with all safety standards. F-type connectors for screwing on or crimping.

CA-460 (Z19049903), CA-461 (Z190401xx) - Multiband amplifiers

CA-460

SPECIFICA	CA-460 (Z19049903)		
Inputs	3		
Frequency range	BIII / DAB 160 ÷ 260 MHz	UHF 1 470 ÷ 694 MHz	UHF 1 470 ÷ 694 MHz
Gain	35 db (±1,5 dB)		
Adjust. gain range	20 dB	16 dB	
Output level	114 dBµV DIN 45004B 111 dBµV (IMD3 -66dB) AM-TV 123,5 dBµV (IMD3 -66dB) DVB-TV 104 dBµV (IMD2 -60 dB)		
Noise figure	4 dB (±1,5 dB)	8 dB (±1,5 dB)	
Return losses	≥ 10 dB		
Output voltage	12 Vdc - 50 mA		
Mains voltage	230 Vac - 4 W		
Operating temperature	-10° ÷ +65° C		
Protection index	IP20		

CA-460 (Z19049903)
Broadband head-end amplifiers with three inputs. Built on a compact chassis, they are capable of supplying a signal to a large number of outlets.
Designed for analogue and digital terrestrial TV installations in medium-sized MATV networks or individual installations. They are used as the head-end amplifier of the installation.
Made from ABS plastic, with an internal zamak chassis of which provides maximum shielding. F type connectors which affords a connection with minimum mismatching and high shielding. Power supply unit insulated from the rest of the high frequency circuit, complying with all safety standards.

CA-461 (Z190401xx)
Like **CA-460** but with 4 inputs BIII/BIV/BV/UHF. Channel cuts on request (to be specified when ordering).

AM-183 (Z19030185), AM-187 (Z19030186) - Mast Broadband ampli

AM-183

SPECIFICA	AM-183 (Z19030185)		
Inputs	2		
Frequency range	FM 88 ÷ 108 MHz	BIII / DAB 160 ÷ 260 MHz	UHF 470 ÷ 694 MHz
Gain	16 dB		24 dB
Flatness response	±1,0 dB		±2,0 dB
Adjust. gain range	20 dB		16 dB
Output level	108 dBµV DIN 45004B 105 dBµV (IMD3 -66dB) 105 dBµV (IMD3 -60dB)		
Return loss	≥ 10 dB		
Noise figure	5 dB (±1.0 dB)		3,5 dB (±1.0 dB)
Rejection between inputs	> 30 dB		
Output voltage	12 Vdc - 45 mA		
Operating temperature	-20° ÷ +65° C		
Protection index	IP53		

5G LTE

AM-187

SPECIFICA	AM-187 (Z190430186)		
Inputs	2		
Frequency range	FM 88 ÷ 108 MHz	BIII / DAB 160 ÷ 260 MHz	UHF 470 ÷ 694 MHz
Gain	20 dB		34 dB
Flatness response	±1,0 dB		±2,0 dB
Adjust. gain range	20 dB		16 dB
Output level	108 dBµV DIN 45004B 105 dBµV (IMD3 -66dB) 105 dBµV (IMD3 -60dB)		
Return loss	≥ 10 dB		
Noise figure	5 dB (±1.0 dB)		3,5 dB (±1.0 dB)
Rejection between inputs	> 30 dB		
Output voltage	12 Vdc - 45 mA		
Operating temperature	- 20° ÷ +65° C		
Protection index	IP53		

AM-183 (Z19030185) - AM-187 (Z19030186)
Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470 ÷ 694 MHz, also **AM-487 (Z19030205)** have four inputs and **AM-916 (Z19990099)** have three inputs to amplify and combine the signals from the antennas. They have one input to amplify and combine the signals from the antennas. The inputs can be configured as a single input for the combined bands or two inputs for separate bands. They are fed through the coaxial cable from a power supply unit installed inside the building.

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by mean s of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

AM-487, AM-916 - Amplifiers for Mast

AM-487

SPECIFICA	AM-487 (Z19030205)			
Inputs	4			
Frequency range	FM (88 ÷ 108 MHz)	BIII/DAB (160 ÷ 260 MHz)	UHF 1 (470 ÷ 694 MHz)	UHF 2 (470 ÷ 694 MHz)
Gain	20 dB		32 dB	
Adjust. gain range	20 dB		16 dB	
Output level	108 dBµV DIN 45004B 105 dBµV (IMD3 -66dB) 93 dBµV (IMD2 -60 dB)			
Noise figure	5 dB (±1.0 dB)		6 dB (±1.0 dB)	
Rejection between inputs	≥ 30 dB			
DC path	-		12 Vdc - 50 mA	
Operating temperature	-20° ÷ +65° C			
Protection index	IP53			

5G LTE

AM-916

SPECIFICA	AM-916 (Z19039910)
Inputs / Outputs	3 / 2
Frequency range	UHF 1 / 2 (470 ÷ 694 MHz)
Gain	40 dB / 32 dB (AM-386)
Adjust. gain range	16 dB
Output level	2x 108 dBµV DIN 45004B 2x 105 dBµV (IMD3 -66dB) 2x 93 dBµV (IMD2 -60 dB)
Noise figure	3,5 dB (±1.0 dB)
Rejection between inputs	≥ 30 dB
Power supply	12 Vdc - 80 mA
DC path	12 Vdc - 50 mA
Operating temperature	-10° ÷ +65° C
Protection index	IP53

PR-202 (Z19090103) - Multiband amplifiers

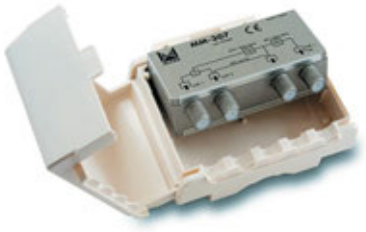
PR-202

SPECIFICA	PR-202 (Z19090103)
Inputs / Outputs	3 / 2
Frequency range	UHF (470 ÷ 862 MHz)
Gain	14 dB
Flatness response	0,6 dB (±1.0 dB) 8MHz
Output level	-100 dBµV DIN 45004B 97 dBµV (IMD2 -60 dB)
Return loss I/O	> 10 dB
Noise figure	< 1 dB
Power supply	12 Vdc - 16 mA
Dimensions	15 x 80 x 100 mm
Operating temperature	-10° ÷ +65° C
Protection index	IP20

PR-202 (Z19090103)
14dB UHF preamplifier, remote-fed at 12Vdc with F type connectors

MM-200, MM-207, MM-307 - Multiplexers and filters

MM-200



MM-307

SPECIFICA	MM-200 (Z19020041)	MM-207 (Z19020040)		MM-307 (Z19020042)		
Inputs	2	2		3		
Frequency range	FM/TV (40 ÷ 862 MHz)	VHF (40 ÷ 260 MHz)	UHF (470 ÷ 862 MHz)	VHF (40 ÷ 260 MHz)	UHF 1 (470 ÷ 862 MHz)	UHF 2 (470 ÷ 862 MHz)
Insertion loss	4,5 dB (±0,7 dB)	0,5 dB (±0,4 dB)	0,6 dB (±0,2 dB)	0,5 dB (±0,4 dB)	4,0 dB (±0,5 dB)	
Isolation between inputs	20 dB	-		-	≥ 15 dB	
Rejection between inputs	-	≥ 30 dB		≥ 30 dB		
Fixed DC path	-	-		-	200 mA	
Switchable DC path	60 mA	-		-		
Operating temperature	-10° ÷ +65° C					
Protection index	IP53					

Multiplexers for masts, universal or by bands, of two inputs. They mix the signals from several antennas in a single coaxial cable. They incorporate switchable DC paths to permit the feeding of a preamplifier.
Individual digital and analogue terrestrial TV installations. In installations where the reception levels are adequate (60 to 75 dBµV) the signals of all the antennas can be combined to distribute them in the building with a single coaxial cable.

MM-214 (Z19020045) - Multiplexers and filters

MM-214

SPECIFICA	MM-214 (Z19020045)	
Inputs	2	
Frequency range	FM/TV (5 ÷ 862 MHz)	SAT (850 ÷ 2400 MHz)
Insertion loss	1,0 dB (±0,5 dB)	
Flatness response	±0,1 dB	±0,3 dB
Channel flatness response	±0,1 dB	
Rejection between inputs	≥ 35 dB	
Return loss I/O	≥ 10 dB	
Fixed DC path	-	0 ÷ 500 mA / 0 ÷ 3 MHz
Pass 22Khz / DiSEqC	-	Yes
Chroma-luminance delay	< 1 nS	-
Operating temperature	-10° ÷ +65° C	
Protection index	IP53	

Multiplexers for masts which combine the signals of terrestrial TV and FM radio with the IF satellite signal from the LNB. The resulting signal is distributed by a single coaxial cable.
Individual or SMATV installations. The mast multiplexer enables the distribution of the satellite signal to the interior of the building when it is not possible to add a new cable for the satellite.

All products are shielded zamak chassis, covered by an ABS plastic box for outdoor use. Fixed to the mast by means of a polyamide clamp. F-type connectors. Supplied in individual or multiple packs.

FR-900 (Z19020052) - Antenna multiplexers and filters

FR-900

SPECIFICA	FR-900 (Z19020052)
Inputs	1
Frequency range	0 ÷ 694 MHz
Insertion loss	1 dB (±0,2 dB)
LTE Band rejection 703-862 MHz	60 dB
GSM-TETRA band rejection 870-960 MHz	60 dB
DC path	24 Vdc - 300 mA (max)
Operating temperature	-10° ÷ +65° C
Protection index	IP53

FR-900 (Z19020052)
Rejection filter for mast, cutting out interference from LTE700, LTE800, GSM and TETRA mobile phone signals. It incorporates a DC path to allow power to be supplied to a preamplifier. Suitable for individual and collective terrestrial TV installation.

AV-315 (Z19090033) - Variable attenuator

AV-315

SPECIFICA	FR-900 (Z19020052)
Frequency range	5 ÷ 2400 MHz
Fixed attenuation	3 db ±0,5dB TV / 4 dB ±1,0 dB SAT
Variable attenuation	1,8 dB (±2,0 dB)
Flatness response	±1,0 dB (±0,1 dB)
Return loss	> 10 dB
DC path	500 mA - DiSEqC 22 Khz
Chroma-luminance delay	< 1 nS
Operating temperature	-10° ÷ +65° C
Protection index	IP20

AV-315 (Z19090033)
Variable attenuators for terrestrial and satellite TV. The variable attenuators are equipped with an attenuation control.

FI-xxx, FR-xxx - Divisori e derivatori verticali > 2400 MHz

Codice	Modello	Foto	Descrizione prodotto
Z19060078	**FI-374**		Splitter, 3 outputs, 7 dB, 5 to 2400 MHz, DC path 400mA, shielded, with F-type connector
Z19060056	**FI-474**		Splitter, 4 outputs, 9,0 dB, 5 to 2400 MHz, DC path 400mA, shielded, with F-type connector
Z19060079	**FI-594**		Splitter, 5 outputs, 10,5 dB, 5 to 2400 MHz, DC path 400mA, shielded, with F-type connector
Z19060053	**FD-210**		Tap-off, 2 outputs at 10 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060033	**FD-213**		Tap-off, 2 outputs at 13 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060034	**FD-219**		Tap-off, 2 outputs at 19 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060035	**FD-225**		Tap-off, 2 outputs at 26 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060054	**FD-410**		Tap-off, 4 outputs at 10 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060038	**FD-413**		Tap-off, 4 outputs at 13.5 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060039	**FD-419**		Tap-off, 4 outputs at 19 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector
Z19060040	**FD-425**		Tap-off, 4 outputs at 26 dB, 5 to 2400 MHz, equalised, shielded, with F-type connector

TX323170 - GPV 950 amplifier w/active RC, 85 ÷ 1006 MHz

Main Features:

- One-board technology: all functionalities on one board implemented
- Rotary switches in 1 dB steps for settings of attenuation and equalization
- Downstream: 85 ÷ 1006 MHz by max output level 113 dBµV
- Upstream: 5 ÷ 65 MHz, max. output 120 dBµV (high load performance for DOCSIS 3.x, KDG-Class D)
- Basic gain selectable via jumpers
- Return path mode selectable: active / passive / off
- Integrated cablesimulator
- State of the art 1 GHz technology
- Excellent and stable amplifier characteristics
- Low power consumption because of high efficient switching PSUs

TX323170 are high output Distribution Amplifiers for use in CATV distribution networks in multi-dwelling premises primarily. Switching of the basic gains enables to configure the amplifiers as line extender or as cascade amplifier in trunk position.
All functional parts and setting elements are implemented on the printed board. Thus you do not need external accessories for configuration and operation of the amplifier in generally. That basic type is mains fed via Euro-plug.

SPECIFICHE	TX323170
Generals	
Return Path	5 ÷ 65 MHz
Type	Amplifier - Indoor
Output level CSO @ 60 dB IMD (42 ch) flat	114 / 116 dBµV
Output level return path	120 dBµV
Frequency	
Frequency range - Forward	87 ÷ 1006 MHz
Gain	
Gain - Return path	32 / 26 / -2 dB
Noise figure - Forward (VHF I “off”)	6,0 dB
Slope - Interstage	DS 0/3/7/10, US 0/3/6/9 dB
Gain forward - Interstage	41 / 33 dB
Loss	
Equalization	0 ÷ 15 dB, 1 dB steps by rotary switches
Attenuation forward - line equalizer at input	41 dB
Electrical	
Impendance	75 Ω
Operational	
Reference standards	EN 50083-2, EN 60065, EN 60728-11, EN 60728-3
AC Supply voltage	190 ÷ 264 Vac
Power Consumption (typ.)	15 W
IP Housing protection class	IP 65
Temperature (operating)	-25° ÷ +55 °C
Inputs / Outputs	1 / 1
RF connector - Test point input: bidirectional	-20 dB
RF connector - Test point output: directional	-20 dB
Connector Type	F-female
Mechanical	
Main material	Zinc diecast
Product Dimensions	180 x 145 x 70 mm
Net Weight	1.6 kg

WSS8221G - Broadband building amplifiers

WSS8221G

SPECIFICA	WSS8221G
Frequency range	87 ÷ 1002 MHz
Gain	34,0 dB (±1.0 dB)
Flatness	±0.75 dB
Max output level	104 dBµV
Input attenuator	0 ÷ 20 dB
Input equalizer	0 ÷ 20 dB
Noise figure	< 7 dB
Return loss	18 dB (5 ÷ 40 MHz)
Power supply / Consumption	187 ÷ 250 Vac / 6 W
Dimensions	155 x 80 x 56 mm
Operating temperature	-20° ÷ +55° C
Protection index	IP41

WSS8221G amplifiers were designed, considering the requirements of CATV operators looking for a good quality of transmitted signal at a reasonable cost of investment. In addition, the possibility of local or remote power supply ensures wide range of its applications. **WSS8221G** wideband amplifiers series is designed for indoor installation only.
It is highly recommended solution for household installations ensuring noise-free amplification, with no affection on signal quality.

Prese Demix TV-SAT - Frontali compatibili

CODICE	DESCRIZIONE
MPD800	**Presa Demiscelata 0 dB CC sui SAT**
MFC830	Frontalino Demix Compatibile Serie BTicino MAGIC
MFC832	Frontalino Demix Compatibile Serie BTicino LIVING INTERNATIONAL
MFC834	Frontalino Demix Compatibile Serie BTicino LIGHT
MFC835	Frontalino Demix Compatibile Serie VIMAR IDEA
MFC836	Frontalino Demix Compatibile Serie VIMAR IDEA BIANCA
MFC837	Frontalino Demix Compatibile Serie GEWISS PLAYBUS NERA
MFC838	Frontalino Demix Compatibile Serie AVE 45 BIANCA
MFC839	Frontalino Demix Compatibile Serie AVE 45 NERA
MFC840	Frontalino Demix Compatibile Serie GEWISS SYSTEM BIANCA
MFC841	Frontalino Demix Compatibile Serie BTicino LIVING
MFC842	Frontalino Demix Compatibile Serie BTicino LUNA
MFC843	Frontalino Demix Compatibile Serie VIMAR PLANA
MFC844	Frontalino Demix Compatibile Serie VIMAR 8000
MFC845	Frontalino Demix Compatibile Serie AVE RAL
MFC846	Frontalino Demix Compatibile Serie AVE BANQUISE
MFC847	Frontalino Demix Compatibile Serie BTicino LIGHT TECH
MFC848	Frontalino Demix Compatibile Serie GEWISS SYSTEM NERA
MFC849	Frontalino Demix Compatibile Serie BTicino MATIX
MFC850	Frontalino Demix Compatibile Serie BTicino MAGIC TT
MFC851	Frontalino Demix Compatibile Serie LEGRAND CROSS
MFC852	Frontalino Demix Compatibile Serie LEGRAND VELA
MFC853	Frontalino Demix Compatibile Serie LEGRAND VELA NERA
MFC854	Frontalino Demix Compatibile Serie LEGRAND MOSAIC
MFC855	Frontalino Demix Compatibile Serie VIMAR EIKON
MFC856	Frontalino Demix Compatibile Serie VIMAR EIKON NEXT
MFC857	Frontalino Demix Compatibile Serie BTicino AXOLUTE Alluminio
MFC858	Frontalino Demix Compatibile Serie BTicino AXOLUTE Antracite
MFC859	Frontalino Demix Compatibile Serie GEWISS CHORUS BIANCA
MFC860	Frontalino Demix Compatibile Serie GEWISS CHORUS NERA
MFC861	Frontalino Demix Compatibile Serie GEWISS CHORUS TITANIO
MFC862	Frontalino Demix Compatibile Serie VIMAR PLANA SILVER
MFC863	Frontalino Demix Compatibile Serie VIMAR EIKON BIANCA
MFC864	Frontalino Demix Compatibile Serie BTicino AXOLUTE "HD" bianca
MFC865	Frontalino Demix Compatibile Serie ABB Elos
MFC866	Frontalino Demix Compatibile Serie ABB Chiara
MFC867	Frontalino Demix Compatibile Serie AVE Domus 100
MFC868	Frontalino Demix Compatibile Serie AVE Life 44
MFC869	Frontalino Demix Compatibile Serie ABB MYLOS Bianca
MFC870	Frontalino Demix Compatibile Serie VIMAR ARCHE' Bianca
MFC871	Frontalino Demix Compatibile Serie VIMAR ARCHE' Nera
MFC872	Frontalino Demix Compatibile Serie AVE ALLUMIA
MFC873	Frontalino Demix Compatibile Serie ABB MYLOS Nera
MFC874	Frontalino Demix Compatibile Serie TICINO LIVING NOW
MFC875	Frontalino Demix Compatibile Serie AVE TEKLA
MFC876	Frontalino Demix Compatibile Serie AVE CLASS
MFC877	Frontalino Demix Compatibile Serie S.V. ARKE' METAL

Prese TV-SAT - Frontali compatibili

CODICE	DESCRIZIONE
MPF700	**Presa F Femmina Terminale 0 dB Passante CC**
MPM700	**Presa IEC MASCHIO Terminale 0 dB Passante CC**
MFC730	Frontalino 1 Foro Compatibile Serie BTicino MAGIC
MFC732	Frontalino 1 Foro Compatibile Serie BTicino LIVING INTERNATIONAL
MFC734	Frontalino 1 Foro Compatibile Serie BTicino LIGHT
MFC735	Frontalino 1 Foro Compatibile Serie VIMAR IDEA
MFC736	Frontalino 1 Foro Compatibile Serie VIMAR IDEA BIANCA
MFC737	Frontalino 1 Foro Compatibile Serie GEWISS PLAYBUS NERA
MFC738	Frontalino 1 Foro Compatibile Serie AVE 45 BIANCA
MFC739	Frontalino 1 Foro Compatibile Serie AVE 45 NERA
MFC740	Frontalino 1 Foro Compatibile Serie GEWISS SYSTEM BIANCA
MFC741	Frontalino 1 Foro Compatibile Serie BTicino LIVING
MFC742	Frontalino 1 Foro Compatibile Serie BTicino LUNA
MFC743	Frontalino 1 Foro Compatibile Serie VIMAR PLANA
MFC744	Frontalino 1 Foro Compatibile Serie VIMAR 8000
MFC745	Frontalino 1 Foro Compatibile Serie AVE RAL
MFC746	Frontalino 1 Foro Compatibile Serie AVE BANQUISE
MFC747	Frontalino 1 Foro Compatibile Serie BTicino LIGHT TECH
MFC748	Frontalino 1 Foro Compatibile Serie GEWISS SYSTEM NERA
MFC749	Frontalino 1 Foro Compatibile Serie BTicino MATIX
MFC750	Frontalino 1 Foro Compatibile Serie BTicino MAGIC TT
MFC751	Frontalino 1 Foro Compatibile Serie LEGRAND CROSS
MFC752	Frontalino 1 Foro Compatibile Serie LEGRAND VELA
MFC753	Frontalino 1 Foro Compatibile Serie LEGRAND VELA NERA
MFC754	Frontalino 1 Foro Compatibile Serie LEGRAND MOSAIC
MFC755	Frontalino 1 Foro Compatibile Serie VIMAR EIKON
MFC756	Frontalino 1 Foro Compatibile Serie VIMAR EIKON NEXT
MFC757	Frontalino 1 Foro Compatibile Serie BTicino AXOLUTE Alluminio
MFC758	Frontalino 1 Foro Compatibile Serie BTicino AXOLUTE Antracite
MFC759	Frontalino 1 Foro Compatibile Serie GEWISS CHORUS BIANCA
MFC760	Frontalino 1 Foro Compatibile Serie GEWISS CHORUS NERA
MFC761	Frontalino 1 Foro Compatibile Serie GEWISS CHORUS TITANIO
MFC762	Frontalino 1 Foro Compatibile Serie VIMAR PLANA SILVER
MFC763	Frontalino 1 Foro Compatibile Serie VIMAR EIKON BIANCA
MFC764	Frontalino 1 Foro Compatibile Serie BTicino AXOLUTE "HD" bianca
MFC765	Frontalino 1 Foro Compatibile Serie ABB Elos
MFC766	Frontalino 1 Foro Compatibile Serie ABB Chiara
MFC767	Frontalino 1 Foro Compatibile Serie AVE Domus 100
MFC768	Frontalino 1 Foro Compatibile Serie AVE Life 44
MFC769	Frontalino 1 Foro Compatibile Serie ABB MYLOS Bianca
MFC770	Frontalino 1 Foro Compatibile Serie VIMAR ARCHE' Bianca
MFC771	Frontalino 1 Foro Compatibile Serie VIMAR ARCHE' Nera
MFC772	Frontalino 1 Foro Compatibile Serie AVE ALLUMIA
MFC773	Frontalino 1 Foro Compatibile Serie ABB MYLOS Nera
MFC774	Frontalino 1 Foro Compatibile Serie TICINO LIVING NOW
MFC775	Frontalino 1 Foro Compatibile Serie AVE TEKLA
MFC776	Frontalino 1 Foro Compatibile Serie AVE CLASS
MFC777	Frontalino 1 Foro Compatibile Serie S.V. ARKE' METAL

Tutti i marchi, registrati e non, non sono di nostra proprietà e sono riportati unicamente per indicare la destinazione compatibile dei nostri prodotti con i prodotti delle case titolari dei marchi presenti.

Parabole in acciaio

Q9P160ACG

Q9P178ACB

Q9P493ACB

50 PEZZI

30 PEZZI

SPECIFICA	Q9P160ACB	Q9P178ACB/G/M - Q9P178SKY B/G/M	Q9P493ACB/G/M
Caratteristiche elettriche			
Gamma di frequenze	10,7 ÷ 12,75 GHz		
Guadagno a 11,7 GHz	34,3 dBi	37,2 dBi	18,6 dBi
Caratteristiche meccaniche			
Multifeed	Multifeed	Dual feed 6° - Multifeed	
Elevazione gamma	0 ÷ 90°		
Elevazione con palo passante	0 ÷ 41°	0 ÷ 40°	3 ÷ 44°
Carico vento a 50 Km/h	4 Kg	7 Kg	10 Kg
Carico vento a 100 Km/h	15 Kg	28 Kg	40 Kg
Carico vento a 150 Km/h	34 Kg	62 Kg	90 Kg
Dimensioni (A x L)	550 x 510 mm	750 x 690 mm	900 x 830 mm
Materiale Parabola / Supporto	Acciaio zincato di alta qualità / Metallo (**Q9P160ACB**-**Q9P493ACx**)- Plastica (**Q9P178xxx**)		
Finitura	Rivestimento verniciato a polvere		
Colore	Bianco	Bianco / Grigio / Mattone	
Staffe			
Supporto LNB	Ø 23 ÷ 40 mm		
Diametro palo	Ø 32 ÷ 60 mm		
Fissaggio a palo	Doppio		
Imballo			
Quantità	Bulk 50 pezzi (**Q9P178SKY** 200 pezzi)		Bulk 30 pezzi

ACCESSORI PARABOLE	
Q9SLF	Supporto LNB singolo in pressofusione, adatto per parabole serie Q9P493ACx/Q9P566ALx/Q9P573ALx
Q9DF6	Supporto Dual Feed 6° in plastica, adatto per parabole serie Q9P178ACx / Q9P366Axx / Q9P378Axx / Q9P493ACx / Q9P566ALx / Q9P573ALx
Q9DFR	Supporto Dual Feed regolabile in plastica, adatto per parabole serie Q9P366Axx / Q9P378Axx / Q9P493ACx / Q9P566ALx / Q9P573ALx

Parabole in acciao / alluminio

Q9P366ALB

Q9P378ALB

Q9P566ALM

50 PEZZI

30 PEZZI

SPECIFICA	Q9P366ACB/G/M Q9P366ALB/G/M	Q9P378ACB/G/M Q9P378ALB/G/M	Q9P566ALB/G/M
Caratteristiche elettriche			
Gamma di frequenze	10,7 ÷ 12,75 GHz		
Guadagno a 11,7 GHz	35,9 dBi	37,2 dBi	35,9 dBi
Caratteristiche meccaniche			
Multifeed	Dual feed 6° - Multifeed	Dual feed - Multifeed	Dual feed 6° - Multifeed
Elevazione gamma	0 ÷ 90°		
Elevazione con palo passante	0 ÷ 41°	0 ÷ 43°	3 ÷ 44°
Carico vento a 50 Km/h	6 Kg	7 Kg	6 Kg
Carico vento a 100 Km/h	21 Kg	28 Kg	21 Kg
Carico vento a 150 Km/h	47 Kg	62 Kg	47 Kg
Dimensioni (A x L)	650 x 600 mm	750 x 690 mm	650 x 600 mm
Materiale Parabola / Supporto	Acciaio zincato di alta qualità - Alluminio / Metallo		Alluminio / Metallo
Finitura	Rivestimento verniciato a polvere		
Colore	Bianco / Grigio / Mattone		
Staffe			
Supporto LNB	Ø 23 ÷ 40 mm		
Diametro palo	Ø 32 ÷ 60 mm		
Fissaggio a palo	Singolo / Doppio	Doppio	
Imballo			
Quantità	Bulk 50 pezzi		Bulk 30 pezzi

ACCESSORI PARABOLE	
Q9SLF	Supporto LNB singolo in pressofusione, adatto per parabole serie Q9P493ACx/Q9P566ALx/Q9P573ALx
Q9DF6	Supporto Dual Feed 6° in plastica, adatto per parabole serie Q9P366Axx / Q9P378Axx / Q9P493ACx / Q9P566ALx / Q9P573ALx
Q9DFR	Supporto Dual Feed regolabile in plastica, adatto per parabole serie Q9P366Axx / Q9P378Axx / Q9P493ACx / Q9P566ALx / Q9P573ALx

Parabole in alluminio

Q9P573ALB

Q9P577ALB

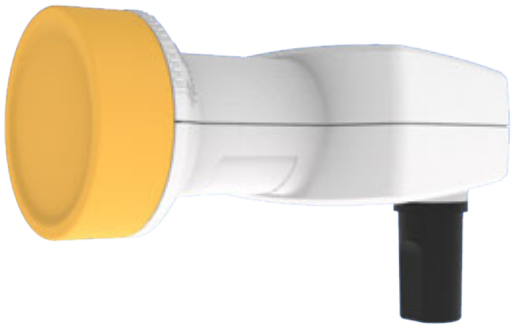
Q9P593ALG

30 PEZZI

SPECIFICA	Q9P573ALB/G/M	Q9P577ALB/G/M	Q9P593ALB/G/M
Caratteristiche elettriche			
Gamma di frequenze	10,7 ÷ 12,75 GHz		
Guadagno a 11,7 GHz	37,2 dBi	37,2 dBi	38,7 dBi
Caratteristiche meccaniche			
Multifeed	Dual feed 6° - Multifeed		
Elevazione gamma	0 ÷ 90°		
Elevazione con palo passante	1 ÷ 43°	1 ÷ 43°	3 ÷ 44°
Carico vento a 50 Km/h	7 Kg	7 Kg	10 Kg
Carico vento a 100 Km/h	28 Kg	28 Kg	40 Kg
Carico vento a 150 Km/h	62 Kg	62 Kg	90 Kg
Dimensioni (A x L)	750 x 690 mm	750 x 690 mm	900 x 830 mm
Materiale Parabola / Supporto	Alluminio / Metallo		
Finitura	Rivestimento verniciato a polvere		
Colore	Bianco / Grigio / Mattone		
Staffe			
Supporto LNB	Ø 23 ÷ 40 mm		
Diametro palo	Ø 32 ÷ 60 mm		
Fissaggio a palo	Doppio		
Imballo			
Quantità	Bulk 30 pezzi		

ACCESSORI PARABOLE	
Q9SLF	Supporto LNB singolo in pressofusione, adatto per parabole serie Q9P493ACx/Q9P566ALx/Q9P573ALx
Q9DF6	Supporto Dual Feed 6° in plastica, adatto per parabole serie Q9P366Axx / Q9P378Axx / Q9P493ACx / Q9P566ALx / Q9P573ALx
Q9DFR	Supporto Dual Feed regolabile in plastica, adatto per parabole serie Q9P366Axx / Q9P378Axx / Q9P493ACx / Q9P566ALx / Q9P573ALx
Q9DF93	Supporto Dual Feed regolabile in pressofusione, adatto per parabole serie Q9P593ALx
Q9DF577	Supporto Dual Feed regolabile in pressofusione, adatto per parabole serie Q9P577ALx

IV5278 - IV5687 dCSS LNB Straightfeed 40mm



Main Features:

- Low Phase Noise, DVB-S2 (HDTV/UHD) compliant
- Low Noise Figure
- Low power consumption
- Very High Cross Polarization Isolation
- Programmable Static frequency mapping mode
- Dish alignment mode

SPECIFICA	IV5278	IV5687
Input Frequency Range	10.7 ÷ 12.75 GHz	
LO Frequency	10.4 GHz	
Noise figure	1 dB max	
LO temperature drift @ 25°C	±2.5 MHz max	
LO initial accuracy	±1.0 MHz max	
LO phase noise @ 10 kHz	-80 dBc/Hz max	
Conversion Gain	55 dB min	
Gain variation (over full band)	±0.75 dB/UB max	
Image rejection	40 dB min	
1 dB compression point (@output)	0 dB min	
Cross polarization isolation	22 dB min	
Output VSWR	2.5 : 1	
Current consumption	400 mA max. @ 13.5 Vdc	
Operating temperature	-30° ÷ +60° C	
Output Impedance	75 Ω	
Output connector type	F-type (female)	
Weight	220 g	
Bandwidth User Band	Configurable, 10 ÷ 64 MHz (default 30 MHz)	
Number of User Bands	Up to 32	

PRODOTTO CORRELATO IV5393

PRODOTTO CORRELATO SAT PAL

IV5278 Standard Configuration
32 UBs in dynamic mode

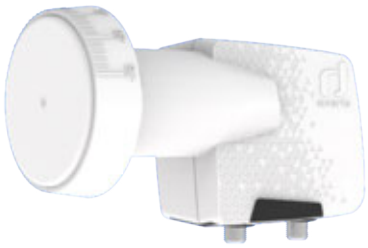
Channel	Unicable I	Unicable II	Frequency	Channel	Unicable I	Unicable II	Frequency
1	UB 1		1210.0 MHz	21	UB 21		1716.0 MHz
2	UB 2		1420.0 MHz	22	UB 22		1752.0 MHz
3	UB 3		1680.0 MHz	23	UB 23		1788.0 MHz
4	UB 4		2040.0 MHz	24	UB 24		1824.0 MHz
5	UB 5		984.0 MHz	25		UB 25	1860.0 MHz
6	UB 6		1020.0 MHz	26		UB 26	1896.0 MHz
7	UB 7		1056.0 MHz	27		UB 27	1932.0 MHz
8	UB 8		1092.0 MHz	28		UB 28	1968.0 MHz
9	UB 9		1128.0 MHz	29		UB 29	2004.0 MHz
10	UB 10		1164.0 MHz	30		UB 30	2076.0 MHz
11	UB 11		1256.0 MHz	31		UB 31	2112.0 MHz
12	UB 12		1292.0 MHz	32		UB 32	2148.0 MHz
13	UB 13		1328.0 MHz				
14	UB 14		1364.0 MHz				
15	UB 15		1458.0 MHz				
16	UB 16		1494.0 MHz				
17	UB 17		1530.0 MHz				
18	UB 18		1566.0 MHz				
19	UB 19		1602.0 MHz				
20	UB 20		1638.0 MHz				

IV5687 Standard Configuration
20 UBs in dynamic mode

Channel	Unicable I	Unicable II	Frequency
1	UB 1		1210.0 MHz
2	UB 2		1420.0 MHz
3	UB 3		1680.0 MHz
4	UB 4		2040.0 MHz
5		UB 5	985.0 MHz
6		UB 6	1050.0 MHz
7		UB 7	1115.0 MHz
8		UB 8	1275.0 MHz
9		UB 9	1340.0 MHz
10		UB 10	1485.0 MHz
11		UB 11	1550.0 MHz
12		UB 12	1615.0 MHz
13		UB 13	1745.0 MHz
14		UB 14	1810.0 MHz
15		UB 15	1875.0 MHz
16		UB 16	1940.0 MHz
17	UB 17		1160.0 MHz
18	UB 18		1990.0 MHz
19	UB 19		2086.0 MHz
20	UB 20		2130.0 MHz

IV5441 - IV5442 Universal 40mm PLL LNB Home Pro

IV5441
Single Universal
40mm PLL LNB
Home Pro

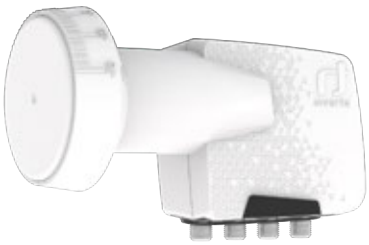


IV5442
Twin Universal
40mm PLL LNB
Home Pro

Main Features:
- Low Phase Noise, DVB-S2 (HDTV/UHD) compliant
- Low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability

SPECIFICA	IV5441, IV5442
Input Frequency Range	10.7 ÷ 12.75 GHz
Output Frequency Range	950 ÷ 1950 MHz
Low band LO frequency	9.75 GHz
High band LO frequency	10.6 GHz
Noise Figure	0.3 dB typ. (0.7 dB max.)
LO frequency accuracy @ 25°C	±500 kHz max.
LO temperature drift @ 25°C	±1.0 MHz max.
LO phase noise @ 10 kHz	-80 dBc/Hz max.
Conversion Gain	55 dB min.
Gain ripple (over 26 MHz bandwidth)	±0.75 dB - 27MHz
Gain Variation (over full band)	±4 dB
Image Rejection	40 dB (min)
3th order intermodulation - ICP3	10 dBm min.
1 dB compression point (@output)	0 dB min.
Cross polarization isolation	20 dB min.
Control signal Ca (V)	11.0 ÷ 14.0 V
Control signal Cb (H)	16.0 ÷ 20.0 V
Control signal Cc (band switching)	22 kHz ±4 kHz - 0.4 - 0.8 Vpp
Output VSWR	2.5 : 1
In band spurious level	- 55 dBm max.
Current consumption	**IV5441**: 85 mA max. @ 11 ÷ 20 Vdc **IV5442**: 120 mA max. @ 11 ÷ 20 Vdc
Operating temperature	-30° ÷ +60° C
Output impedance (LNB2)	75 Ω - Connector F-type (female)
Dish F/D ratio	0.6
Weight	**5441**: 127 g / **IV5442**: 174 g

IV5443, IV5444, IV5479 Quad/Quattro/8 Universal 40mm PLL LNB



IV5443
Quad Universal
40mm PLL LNB
Home Pro

IV5444
Quattro Universal
40mm PLL LNB
Home Pro

IV5479
Octa Universal
40mm PLL LNB
Home Pro

Main Features:
- Low Phase Noise, DVB-S2 (HDTV/UHD) compliant
- Low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability

SPECIFICA	IV5443 / IV5444 / IV5479
Input Frequency Range	10.7 ÷ 12.75 GHz
Output Frequency Range	950 ÷ 1950 MHz
Low band LO frequency	9.75 GHz
High band LO frequency	10.6 GHz
Noise Figure	0.3 dB typ. (0.7 dB max.)
LO frequency accuracy @ 25°C	±500 kHz max.
LO temperature drift @ 25°C	±1.0 MHz max.
LO phase noise @ 10 kHz	-80 dBc/Hz max.
Conversion Gain	55 dB min.
Gain ripple (over 26 MHz bandwidth)	±0.75 dB - 27MHz
Gain Variation (over full band)	±4 dB
Image Rejection	40 dB (min)
3th order intermodulation - ICP3	10 dBm min.
1 dB compression point (@output)	0 dB min.
Cross polarization isolation	20 dB min.
Control signal Ca (V)	11.0 ÷ 14.0 V
Control signal Cb (H)	16.0 ÷ 20.0 V
Control signal Cc (band switching)	22 kHz ±4 kHz 0.4 ÷ 0.8 Vpp
Output VSWR	2.5 : 1
In band spurious level	- 55 dBm max.
Current consumption	120 mA max. @ 11 ÷ 20 Vdc
Operating temperature	-30° ÷ +60° C
Output impedance (LNB2)	75 Ω - Connector F-type (female)
Dish F/D ratio	0.6
Weight	174 g

IV5928, IV5929 - Single/Twin HGLN 40mm PLL LNB

IV5928 - Single HGLN 40mm LNB
IV5929 - Twin HGLN 40mm LNB

Main Features
- Novel feed horn design
- Superior Phase Noise performance, DVB-S2X compliant supporting Ultra HD (4K and 8K) TV
- Excellent Cross Polarization Isolation
- Very Low Spurious Levels
- Superior Noise Figure with high Conversion Gain
- High 4G Immunity
- Ultimate Reliability

SPECIFICATION	IV5928 / IV5929
Low band input frequency range	10.7 ÷ 11.7 GHz
Low band output frequency range	950 ÷ 1950 MHz
Low band LO frequency	9.75 GHz
High band input frequency range	11.7 ÷ 12.75 GHz
High band output frequency range	1100 ÷ 2150 MHz
High band LO frequency	10.6 GHz
Noise figure	0.2 dB typ. (0.7 dB Max.)
LO temperature drift	±2.0 MHz max.
LO accuracy @ 25 °C	±1.0 MHz max.
LO phase noise @ 10 kHz	-80 dBc/Hz
Conversion gain	60 ÷ 70 dB min.
Gain ripple (over 26 MHz bandwidth)	±1.0 dB
Gain variation (over full band)	±4.0 dB max.
Image rejection	50 dB min.
1 dB compression point (@ output)	0.0 dBm min.
Cross polarization isolation	22 dB min.
Control signal Ca (V)	10.0 ÷ 14.0 V
Control signal Cb (H)	16.0 ÷ 20.0 V
Control signal Cc (band switching)	22 kHz ±4 kHz - 0.4 - 0.8Vpp
Output VSWR	2.0 : 1
In band spurious level	-65 dBm max.
Current consumption	100 mA max. (10 ÷ 20 Vdc)
Operating temperature	-30° ÷ +60 °C
Output impedance	75 Ω (F-type)
Output connector type	F-Type (female)
Weight	111.2 g

IV5930, IV5931 - Quad/Quattro HGLN 40mm LNB

IV5930 - Quad HGLN 40mm LNB
IV5931 - Quattro HGLN 40mm LNB

Main Features
- Novel feed horn design
- Superior Phase Noise performance, DVB-S2X compliant supporting Ultra HD (4K and 8K) TV
- Excellent Cross Polarization Isolation
- Very Low Spurious Levels
- Superior Noise Figure with high Conversion Gain
- High 4G Immunity
- Ultimate Reliability

SPECIFICATION	IV5930 / IV5931
Low band input frequency range	10.7 ÷ 11.7 GHz
Low band output frequency range	950 ÷ 1950 MHz
Low band LO frequency	9.75 GHz
High band input frequency range	11.7 ÷ 12.75 GHz
High band output frequency range	1100 ÷ 2150 MHz
High band LO frequency	10.6 GHz
Noise figure	0.2 dB typ. (0.7 dB Max.)
LO temperature drift	±2.0 MHz max.
LO accuracy @ 25 °C	±1.0 MHz max.
LO phase noise @ 10 kHz	-80 dBc/Hz
Conversion gain	60 ÷ 70 dB min.
Gain ripple (over 26 MHz bandwidth)	±1.0 dB
Gain variation (over full band)	±4.0 dB max.
Image rejection	50 dB min.
1 dB compression point (@ output)	0.0 dBm min.
Cross polarization isolation	22 dB min.
Output VSWR	2.0 : 1
In band spurious level	-65 dBm max.
Current consumption	230 mA max. (10 ÷ 20 Vdc)
Operating temperature	-30° ÷ +60° C
Output impedance	75 Ω (F-type)
Output connector type	F-Type (female)
Weight	177 g

MLSCR4 - LNB SCR + Legacy 5G Filter

5G LTE

MLSCR4 Standard Configuration - 16 UBs in dynamic mode			
Channel	Unicable I	Unicable II	Frequency
1	UB 1		1210.0 MHz
2	UB 2		1420.0 MHz
3	UB 3		1680.0 MHz
4	UB 4		2040.0 MHz
5		UB 5	985.0 MHz
6		UB 6	1050.0 MHz
7		UB 7	1115.0 MHz
8		UB 8	1275.0 MHz
9		UB 9	1340.0 MHz
10		UB 10	1485.0 MHz
11		UB 11	1550.0 MHz
12		UB 12	1615.0 MHz
13		UB 13	1745.0 MHz
14		UB 14	1810.0 MHz
15		UB 15	1875.0 MHz
16		UB 16	1940.0 MHz

SPECIFICA	MLSCR4
Input Frequency Range	10.7 ÷ 11.7 GHz- 11.7 ÷ 12.75 GHz
Output Frequency Range	950 ÷ 1950 MHz - 1100 ÷ 2150 MHz
LO frequency	9.75 ÷ 10.6 GHz
Noise Figure	0.3 dB typ. (0.7 dB max.)
LO frequency stability @ 25 °C	±1 MHz
LO frequency stability @ -30° ÷ +70° C	±2.5 MHz
Fixed IF channels bands	Channel 1 - 1210 MHz Channel 2 - 1420 MHz Channel 3 - 1680MHz Channel 4 - 2040 MHz
Phase noise @ 1 Khz offset	- 70 dBc/Hz
Phase noise @ 10 Khz offset	- 83 dBc/Hz
Phase noise @ 100 Khz offset	- 93 dBc/Hz
Phase noise @ 1 MHz offset	- 97 dBc/Hz
Phase noise @ 10 MHz offset	- 106 dBc/Hz
Conversion Gain	55 dB min.
Gain ripple (over 26 MHz bandwidth)	±0.55 dB/29MHz - ±0.75 dB/58MHz
Gain ripple in Low band	±3 dB
Gain ripple in High band	±3 dB
Noise figure full band	0.7 ÷ 0.8 dB
Image Rejection	42 dB
Output impedance	75 Ω - Connector F-type (female)
VSWR	2.0 : 1
Cross polarization rejection	21 dB
LNB supply voltage V polarization	11 ÷ 14 V
LNB supply voltage H polarization	16 ÷ 20 V
High band selection frequency	22 kHz ±4 kHz
Current consumption	250 mA max
Operating temperature	-30° ÷ +70° C

MLWB21 - LNB Wideband LNB SKY LO 10.41GHZ 5G filter

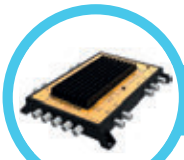
5G LTE

Main Features:

- Low Phase Noise, DVB-S2 (HD/UHD) compliant
- Very low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability

SPECIFICA	MLWB21
Low Band Input Frequency Range	10.7 ÷ 12.75 GHz
IF Frequency Range	300 ÷ 2350 MHz
Noise figure	0.7 dB typ. (1 dB max.)
LO phase noise @ 10 kHz	- 80 dBc/Hz max.
Conversion gain	50 ÷ 60 dB min.
Gain variation (over full band)	±0.5 dB @ 27 MHz
Image rejection	40 dB min. (8.05 ÷ 10.1 GHz)
1 dB compression point (@ output)	0.0 dBm min.
Cross polarization isolation	25 dB min.
Polarization selection - Vertical	10 ÷ 14 V
Polarization selection - Horizontal	16 ÷ 20 V
Output VSWR	2.5 : 1
In band spurious level	- 60 dBm max.
Current Consumption	150 mA max. @ 11 ÷ 20 Vdc
Operating Temperature	-30° ÷ +60° C
Output Impedance	75 Ω
Output Connector	F-Type (Female)

PRODOTTO CORRELATO IV5413



PRODOTTO CORRELATO IV5458

MLQ4WB2 - LNB Wideband + HVHV LO 10.41GHZ 5G filter

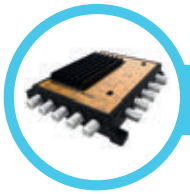
5G LTE

HVHV + WIDEBAND

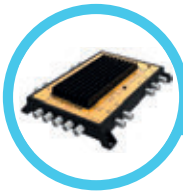
Main Features:

- Low Phase Noise, DVB-S2 (HD/UHD) compliant
- Very low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability

SPECIFICA	MLQ4WB2	
Low band Input Frequency Range	10.7 ÷ 11.7 GHz	10.7 ÷ 12.75 GHz
Output Frequency Range	950 ÷ 1950 MHz	290 ÷ 2340 MHz
LO frequency	9.75 GHz	10.41 GHz
Noise Figure	1.0 dB (max)	
Control signals	Ca or Cb	
High band input Frequency Range	11.7 ÷ 12.75 GHz	10.7 ÷ 12.75 GHz
Output Frequency Range	1100 ÷ 2150 MHz	290 ÷ 2340 MHz
LO frequency	10.6 GHz	10.41 GHz
Noise Figure	1.0 dB (max)	
LO initial accuracy	±1.0 MHz	
LO phase noise @ 1 kHz	55 dBc/Hz	
LO phase noise @ 10 kHz	75 dBc/Hz	
LO phase noise @ 100 kHz	92 dBc/Hz	
Conversion Gain	55 ÷ 65 dB	50 ÷ 60 dB
Image Rejection	40 dB (min)	
Crosstalk isolation	20 dB (min)	
Control signal Ca (V)	11.0 ÷ 14.5 V	9.0 ÷ 20.0 V
Control signal Cb (H)	16.0 ÷ 20.0 V	-
Control signal Cc	22 KHz ±4 KHz	
DC power	180 mA (max) @ 12 ÷ 20 Vdc	
Operating temperature	-30° ÷ +70° C	



PRODOTTO CORRELATO IV5413



PRODOTTO CORRELATO IV5458

MLQUADWB2 - LNB Wideband + QUAD LO 10.41GHZ 5G filter

5G LTE

QUAD + WIDEBAND

Main Features:

- Low Phase Noise, DVB-S2 (HD/UHD) compliant
- Very low Noise Figure
- Low power consumption
- High Cross Polarization Isolation
- High Frequency stability

SPECIFICA	MLQUADWB2	
Low band Input Frequency Range	10.7 ÷ 11.7 GHz	10.7 ÷ 12.75 GHz
Output Frequency Range	950 ÷ 1950 MHz	290 ÷ 2340 MHz
LO frequency	9.75 GHz	10.41 GHz
Noise Figure	1.0 dB (max)	
Control signals	Ca or Cb	
High band input Frequency Range	11.7 ÷ 12.75 GHz	10.7 ÷ 12.75 GHz
Output Frequency Range	1100 ÷ 2150 MHz	290 ÷ 2340 MHz
LO frequency	10.6 Ghz	10.41 Ghz
Noise Figure	1.0 dB (max)	
LO initial accuracy	±1.0 MHz	
LO phase noise @ 1 kHz	55 dBc/Hz	
LO phase noise @ 10 kHz	75 dBc/Hz	
LO phase noise @ 100 kHz	92 dBc/Hz	
Conversion Gain	55 ÷ 65 dB	50 ÷ 60 dB
Image Rejection	40 dB (min)	
Crosstalk isolation	20 dB (min)	
Control signal Ca (V)	11.0 ÷ 14.5 V	9.0 ÷ 20.0 V
Control signal Cb (H)	16.0 ÷ 20.0 V	
Control signal Cc	22 kHz ±4 kHz	
DC power	180 mA (max) @ 12 ÷ 20 Vdc	
Operating temperature	- 30° ÷ +70° C	

J9725 - Multiswitch Wideband 2xdCSS/SCR/Legacy + DTT

NEW ITEM

SPECIFICA	J9725
Trunk inputs	2 SAT + 1 TERR/FM/DAB
Trunk outputs	2 (TERR. + Legacy + SCR)
Input Frequency	Terr. 5 ÷ 862 MHz / SAT: 290 ÷ 2340 MHz
Output Frequency	5 ÷ 862 MHz / 950 ÷ 2150 MHz
Input/output connector	75 Ω F-type (Female)
dCSS/dSCR UBs	16 + 16
dCSS/dSCR output level	85 dBµV
Return loss	≥ 8 dB (typ. 12)
Satellite loss	Not applicable, AGC (automatic Gain control)
Terrestrial/CABLE LOSS	-4 dB
Band and polarity selection	Universal LNB voltage & Tone DiSEqC 1.0 (unidirectional) DiSEqC 2.0 (bidirectional) Standard EN50494 (SCD) EN50607 (SCD2) I SKY UK standard
Max DC current consumption	< 350 mA @13 Vdc | < 320 mA @13 Vdc
Power supply	From STB to LNB
Operating temperature	-20° ÷ +50° C
Dimensions	65 x 100 x 30 mm Indoor unit 120 x 115 x 50 mm Outdoor unit

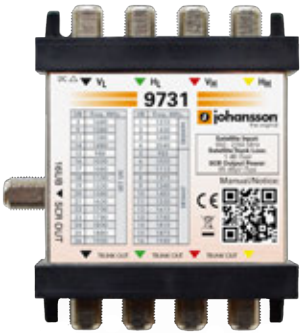
Main Features:

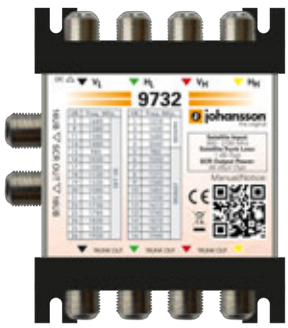
- designed for Pre-Wired dwellings with Wideband LNBs and Terrestrial and Radio antennas
- 3 inputs: 2 Satellite cables (Wideband LNB) + 1 Terrestrial cable
- 2 outputs with 16 user bands each
- multistandard: EN50494 - EN50607 - SKY - Legacy - Terr.
- supporting New Build Developers and also for Retro-Fitting
- makes all digital platforms available to residents
- upgrade to Sky Q without changing your existing quadplex wall socket
- for indoor use and outdoor use

2 SATELLITE INPUTS, SKY Q COMPATIBLE , 2 OUTPUTS WITH EACH 16 USER BANDS

Upgrade to Sky Q without changing your existing quadplex wall socket. The 9725 SFU dCSS Switch converts a wideband signal to dCSS so you can connect any digital Set-Top box – such as Sky Q, Sky+, FreeSat or Freeview - without changing your in-home wall socket.

J9731 - J9732 Digital SCR Solutions Multiswitch





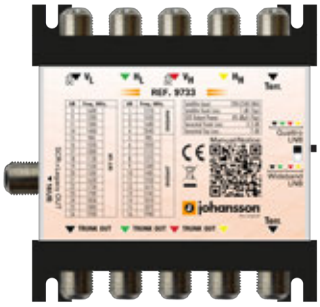
SPECIFICA	J9731	J9732
Trunk inputs	4	
Trunk outputs	4	
Frequency	950 ÷ 2150 MHz	
Trunk loss	3 dB	
dCSS/dSCR outputs	1	2
dCSS/dSCR output connector	75 Ω F-type (Female)	
dCSS/dSCR UBs	16	16 + 16
dCSS/dSCR output level	85 dBµV	
Return loss	≥ 8 dB (typ. 12)	
Tap loss	Not applicable, AGC (automatic Gain control)	
Band and polarity selection	DiSEqC 1.0 (unidirectional) DiSEqC 2.0 (bidirectional) Standard EN 50494 (SCD) Standard EN 50607 (SCD2) SKY UK standard	
Max DC current consumption	< 300 mA @13 V	< 320 mA @13 V
Power supply	From STB, power inserter or trunk (VL)	
Power inserter (2460 + 9669 available separately)	3 A, 20 Vdc	
Dimensions	90 x 80 x 40 mm	

Main Features:

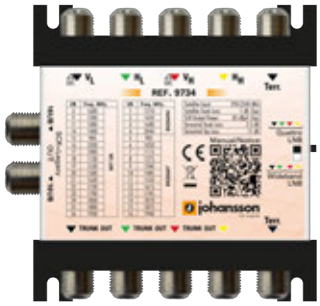
- up to 16 UBs per SCR Output
- supports all SCR standards
- ultra compact housing
- trunk output for cascading multiple products
- available for different operator user bands
- J9731: SKY Approved
- J9732: SKY Compatible

Unitron offers a wide range of multiswitches with integrated 'SCR' technology. With those multiswitches, you can connect multiple set-top boxes for multi-room applications to numerous satellites using one coaxial cable only!

J9733 - J9734 Digital SCR Solutions Multiswitch



J9733



J9734

Main Features:

- input for 1 universal LNB or 2 wideband LNBs (switchable)
- up to 16 UBs per SCR output
- auto detection for SCR and Legacy Mode
- possibility to convert wideband inputs into Legacy outputs
- support all SCR Standards
- compatible with all Legacy STBs
- passive terrestrial/cable diplexer
- low power Sleep Mode
- ultra compact housing
- trunk output for cascading multiple products
- available for different operator user bands
- see page 51 for application scheme

SPECIFICA	J9733	J9734
Trunk inputs	4 + 1	
Trunk outputs	4 + 1	
Frequency	5 ÷ 862 MHz / 290 ÷ 2340 MHz	
Trunk loss	31 dB	
dCSS/dSCR outputs	1	2
dCSS/dSCR output connector	75 Ω F-type (Female)	
dCSS/dSCR UBs	16	16 + 16
dCSS/dSCR output level	85 dBµV	
Return loss	≥ 8 dB (typ. 12)	
Tap loss	Not applicable, AGC (automatic Gain control)	
Band and polarity selection	Universal LNB voltage & Tone DiSEqC 1.0 (unidirectional) DiSEqC 2.0 (bidirectional) Standard EN50494 (SCD) EN50607 (SCD2) I SKY UK standard	
Max DC current consumption	< 350 mA @13 Vdc	< 320 mA @13 Vdc
Power supply	From STB, power inserter or trunk (VL&VH)	
Power inserter (2460 + 9669 available separately)	20 Vdc - 3 A max	
Dimensions	92 x 90 x 40 mm	

The 9733/ 9734 has 4 satellite wideband input (for 1 quattro or 2 wideband LNB), passive terrestrial diplexer, 2 outputs with each 16 user bands.

J9739 - Digital SCR Solutions Multiswitch Add-on

Main Features:

- no need to interrupt the trunk signal during installation
- make a legacy system compatible with two times 16 user bands
- supports the following standards:
  - EN50494/SCR standard (DiSEqC 1.0)
  - EN50607/dCSS/dSCR standard (DiSEqC 2.0)
  - Simultaneous support for EN50494/EN50607 standards
  - SKY UK standard

SPECIFICA	J9739
Inputs	4 ports Terrestrial + Satellite
Input frequency	5 ÷ 862 MHz / 950 ÷ 2150 MHz
STB output frequency	5 ÷ 862 MHz / 950 ÷ 2150 MHz
dCSS/dSCR outputs	2 legacy only 2 SCR/legacy (auto detection)
dCSS/dSCR output connector	75 Ω, F type (Female)
dCSS/dSCR UBs	16 per SCR output
dCSS/dSCR output level	88 dBµV
Satellite input power level	64 ÷ 94 dBµV
Return loss	≥ 8 dB (typ 12)
Tap loss	SCR: Not applicable, AGC (automatic Gain control) Legacy: 0 dB typical
Terrestrial/Cable loss	-7 dB typical
Band and polarity selection	DiSEqC 1.0 (unidirectional), DiSEqC 2.0 (bidirectional) Standard EN 50494 (SCD), Standard EN 50607 (SCD2)
Max DC current consumption	SCR/Legacy ports: < 4,2 W Legacy ports only: < 2 W
DC power pass from STB to input ports	13 ÷ 18 V / 22 kHz 100 mA max per port
From DC power port to input ports	13 ÷ 18 V / 22 kHz 100 mA max per port 1A max to HL port
Power supply	From STB or power inserter
Power (2460 available separately)	300 mA max, 20 Vdc
Dimensions	90 x 85 x 40 mm

The J9739 can be used with Quattro or Quad LNB types and will output in Legacy or SCR mode.
Use the Multiswitch Add-on to change a legacy Multiswitch to a Channel Stacking Switch (CSS) without loss of existing legacy ports. You can use the Multiswitch Add-on to upgrade your legacy Multiswitch system and make the latest generation of SCR set-top boxes (STB) available in 2 Single Family Units (SFUs) per Add-on. You can also use this Multiswitch Add-on to transform a Fiber GTU signal to a SCR GTU signal.

J9754 - J9758 Digital SCR Solutions dSCR Multiswitch

J9754

J9758

Main Features:

- 4 satellite + 1 terrestrial inputs
- multi-standard: wideband, dSCR, dCSS, legacy, terrestrial
- 4-way (9754)
- 8-way (9758)
- optimized performance and power consumption
- compact die-cast housing for easy installation

SPECIFICA	J9754	J9758
Trunk inputs	Sat: 4 I Terr: 1	
Trunk outputs	Sat: 4 I Terr: 1	
dSCR outputs	4	8
Frequency	Sat: 290 ÷ 2340 MHz Terr: 88 ÷ 862 MHz	
Min input level SAT	Universal LNB: 62 dBµV Wideband LNB: 67 dBµV	
Trunk return loss	> 10 dB	
Trunk insertion loss	Sat: 2 I Terr: 1.5	
Sat positions	Universal LNB: 1 Wideband LNB: 2	
dSCR channel output power	88 dBµV (AGC controlled)	
Output return loss	> 10 dB	
Terr tap loss	18 dB	22 dB
Supported standards	EN50494 (SCD) I EN50607 (SCD 2) BskyB I Legacy Trunk termination	
Trunk termination DC blocked required	75 Ω (Sat & Terr)	
DC power via SAT trunks	20 Vdc	
Consumption	10 W	20 W
Operating temperature	-20° ÷ 50° C, indoor housing	
Dimensions	124 x 117 x 39 mm	204 x 117 x 39 mm

J9754A - J9758A Digital SCR Solutions dSCR Multiswitch

J9754A

J9758A

Main Features:

- 4 satellite + 1 terrestrial inputs
- multi-standard: wideband, dSCR, dCSS, legacy, terrestrial
- 4-way (**9754A**)
- 8-way (**9758A**)
- optimized performance and power consumption
- compact die-cast housing for easy installation

SPECIFICA	J9754A	J9758A
Trunk inputs	Sat: 4 - Terr: 1	
dSCR outputs	4	8
Frequency	Sat: 290 ÷ 2340 MHz Terr: 88 ÷ 862 MHz	
Min input level SAT	Universal LNB: 62 dBµV Wideband LNB: 67 dBµV	
Max input level SAT	Universal LNB: 106 dBµV Wideband LNB: 106 dBµV	
Max input level TERR	Ampli: 109 dBµV Bypass: 121 dBµV	
Trunk return loss	> 10 dB	
Trunk insertion loss	Sat: 2 dB Terr: 1.5 dB	Sat: 4 dB Terr: 3 dB
Sat positions	Universal LNB: 1 Wideband LNB: 2	
dSCR channel output power	88 dBµV (AGC controlled)	
Output return loss	> 10 dB	
TERR tap loss	Bypass: 20 dB Ampli: 8 dB	Bypass: 24 dB Ampli: 12 dB
Supported standards	EN50494 (SCD) - EN50607 (SCD 2) BskyB - Legacy Trunk termination	
Trunk termination DC blocked required	75 Ω (Sat & Terr)	
DC power via SAT trunks	20 V	
Consumption	10 W	20 W
Operating temperature	-20° ÷ 50° C, indoor housing	
Dimensions	124 x 117 x 39 mm	204 x 117 x 39 mm

J9646 - Wideband to Quattro Converter

This wideband to quattro converter makes it possible to upgrade a complete system to a wideband application, without disabling the homes that do not have wideband tuners.

J2460/J2469 - J2499 Digital SCR Solutions Power Supply

SPECIFICA	J2460 / J2469	J2499
Input voltage	100 ÷ 240 Vac	
Output voltage	20 Vdc	
Output current	3,25 A	1,2 A
Output Connector	F-type	
Dimensions	115 x 55 x 35 mm	90 x 90 x 35 mm

These power supplies are designed to power the trunk lines or the DC input connector.

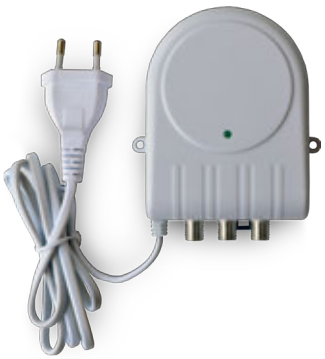
Main Features:
- DC power supply with F-connector
- powers SCR products without overloading the set-top boxes.

J9669 - Digital SCR Solutions Power Inserter

The power inserter enables you to add DC-power on to a coaxial cable.
dSCR power inserter for trunk powering

SPECIFICA	J9669
Frequency range	250 ÷ 2340 MHz
Insertion loss	1 dB
DC power pass	3,25 A
Dimensions	61 x 51 x 16 mm

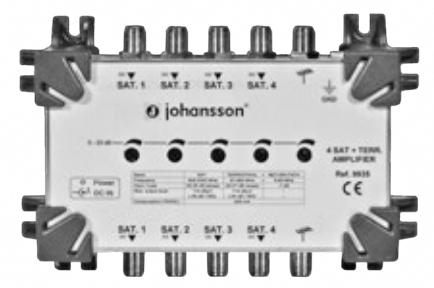
J2461 - Digital SCR Solutions Power Supply



Main Features:
- powers SCR products without overloading the set-top boxes
- copies the set-top box voltage, tone and DiSEqC to the SCR product (EN50494 and EN50607)

SPECIFICA	J92461
Inputs	1
Outputs	2
Frequency range	950 ÷ 2150 MHz
Insertion loss	6 dB
Return loss	> 10 dB
Input voltage	100 ÷ 240 Vac
Output voltage	18 Vdc
Output current	500 mA
Dimensions	110 x 94 x 41 mm
Supported standards	EN50494, EN50607

J9935 - J9654 Digital SCR Solutions Satellite IF Amplifiers



J9935:
- separate adjustment for sloped gain on every line
- DC input for powering trunk line amplifiers & LNB
- works from 12 to 20 Vdc

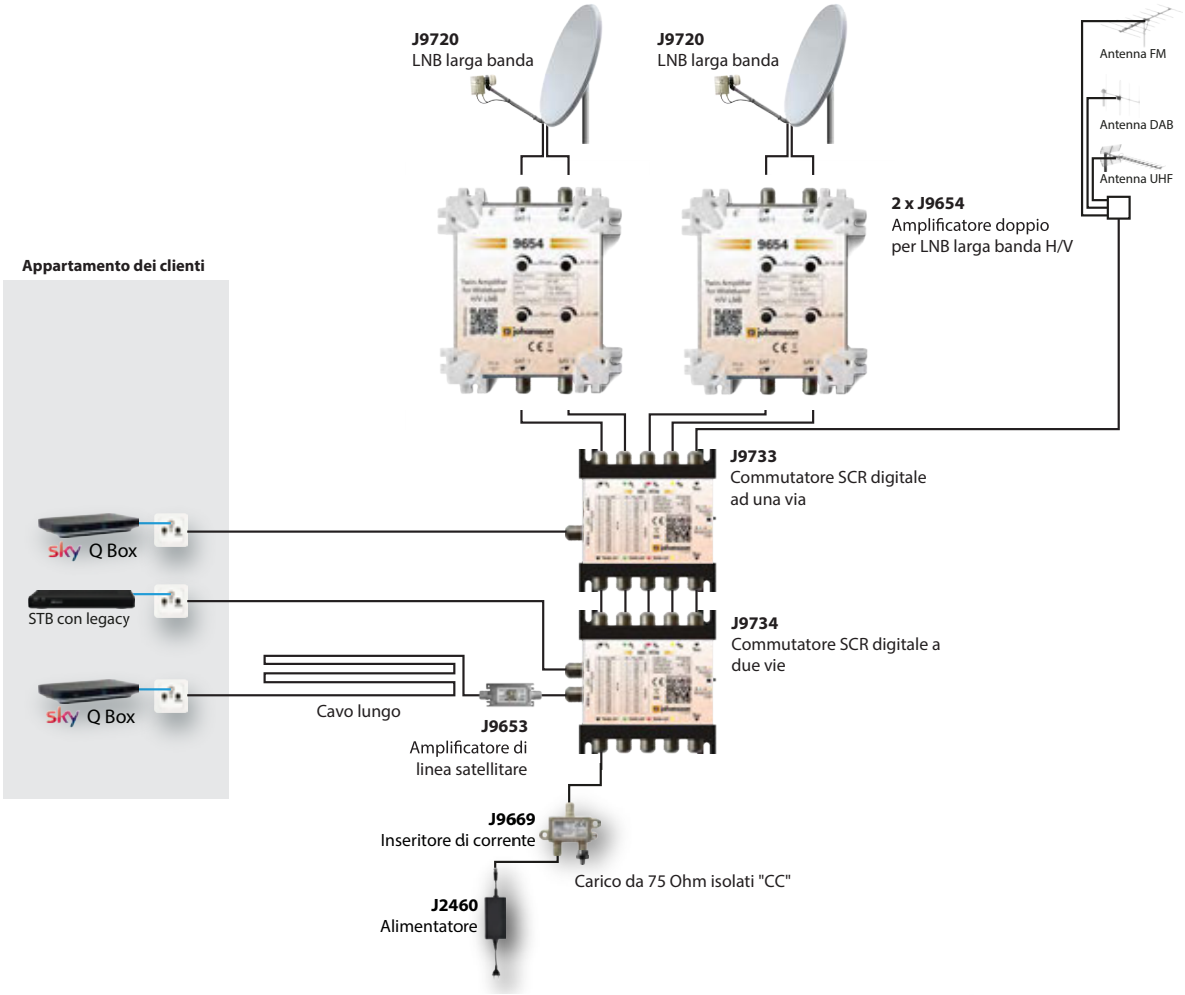
J9654:
- compatible with Wideband LNBs
- separate adjustment for sloped gain on every line
- DC input for powering trunk line amplifiers & LNB
- works from 12 to 20 Vdc

J9655:
Wideband 2 Way Splitter + TER

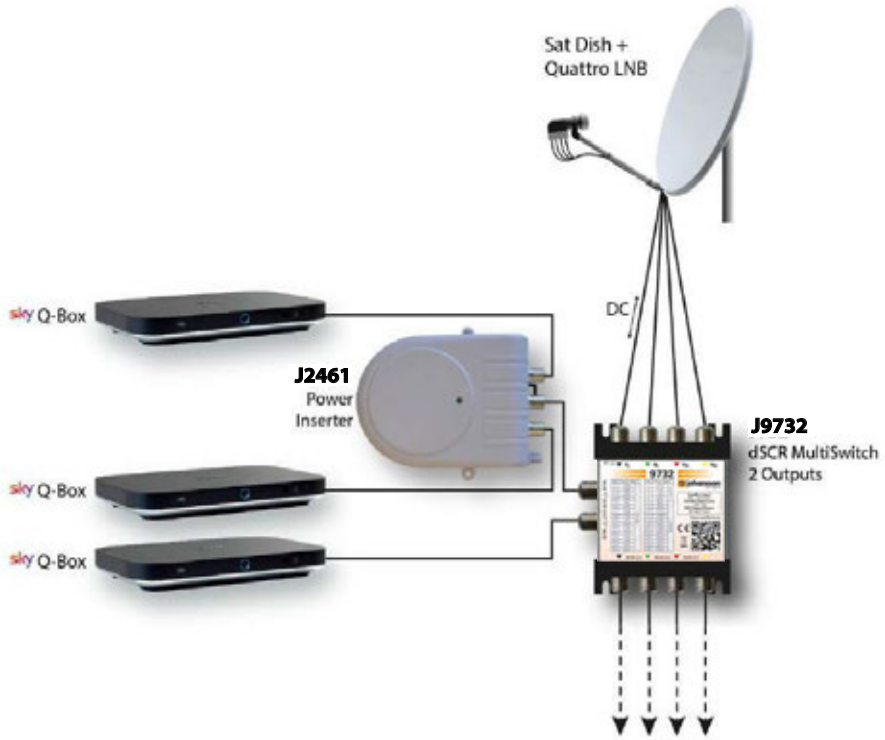
J9657, J9658:
- Automatic Gain Control and Automatic Slope Control on both satellite lines (V/H)
- DC input for powering amplifier and LNB
- selectable between Wideband LNB (290 ÷ 2400 MHz)
- output level selectable for up to 16 splits or 64 splits
- In/Out Terrestrial (**J9658**)
- optional power supply (ref. 9933)

SPECIFICA	J9935	J9654	J9655	J9657	J9658
Inputs	4 SAT + 1 TERR	2 SAT	TERR + H + V	2 SAT (V/H)	2 SAT (V/H) + Terr.
Outputs	5	2	2	2 SAT (V/H)	2 SAT (V/H) + Terr.
Frequency range	Sat.: 950 ÷ 2300 MHz Terr.: 5 ÷ 65 MHz + 87 ÷ 862 MHz	290 ÷ 2340 MHz	Sat.: 290 ÷ 2400 MHz Terr.: 5 ÷ 862 MHz	290 ÷ 2400 MHz (Wideband)	Sat.: 290 ÷ 2400 MHz Terr.: 87 ÷ 862 MHz
Gain	Sat.: 20 ÷ 25 dB (sloped) Terr.: 87 ÷ 862 MHz - 20 ÷ 27 dB (sloped) return path: - 1 dB	30 dB	-	20 dB	Sat.: 10 ÷ 30 dB Terr.: 5 ÷25 dB Return path: 5 ÷ 65 MHz
Noise figure	Sat.: 5 dB | Terr.: 6 dB	5 dB	Sat.: 5 dB | Terr.: 4 dB	5 dB	
Gain adjustment	Sat.: 20 dB | Terr.: 20 dB	15 dB	-	20 dB (Automatic Gain Control)	
Slope adjustment	-	15 dB	-	15 dB (Automatic Slope Control)	
Max. Output level	Sat.: 110 dBµV (-35 dB/IM3) Terr.: RP: passive 87 ÷ 862 MHz: 114 dBµV (-54 dB/IM3)	110 dBµV (-35 dB/IM3)	-	70 or 80 dBµV per transponder (selectable)	Sat.: 113 dBµV Terr.: 105 dBµV
Consumption	200 mA from 12 ÷ 20 Vdc external power supply or input/output	150 mA from 12 ÷ 20 Vdc external power supply or input/output	-	150 mA from 20 Vdc external power supply or input/output	400 mA from 12 ÷ 20 Vdc external power supply or input/output
Dimensions	158 x 102 x 51 mm	129 x 114 x 51 mm	130 x 130 x 50 mm	129 x 114 x 51 mm	129 x 140 x 51 mm

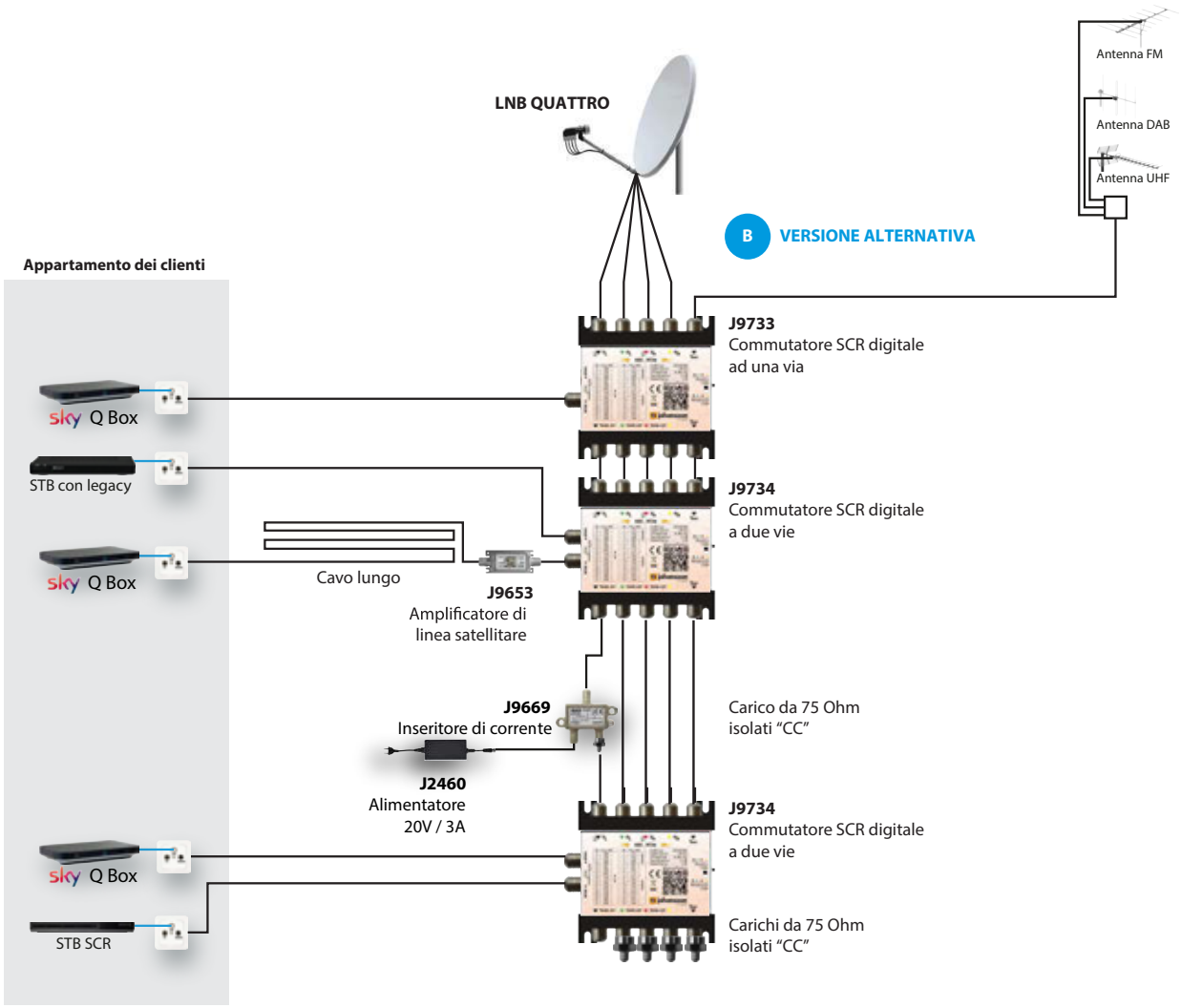
Installazione LNB banda larga

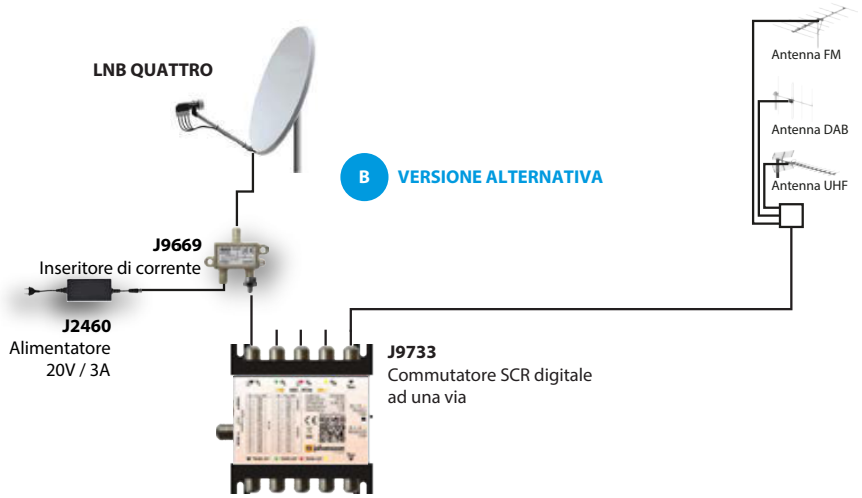


Installazione inseritore di corrente



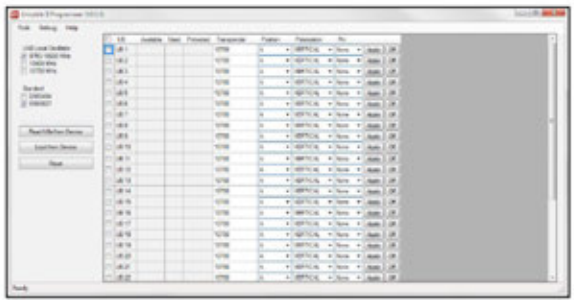
Installazione LNB Quattro

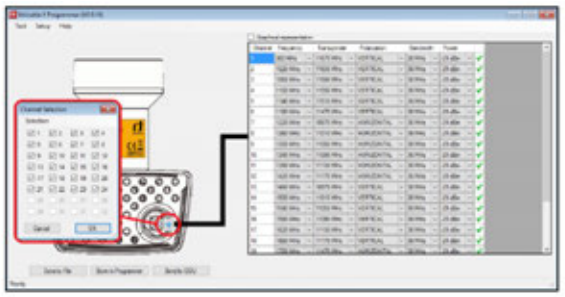




IV5393 - Unicable II Programmer

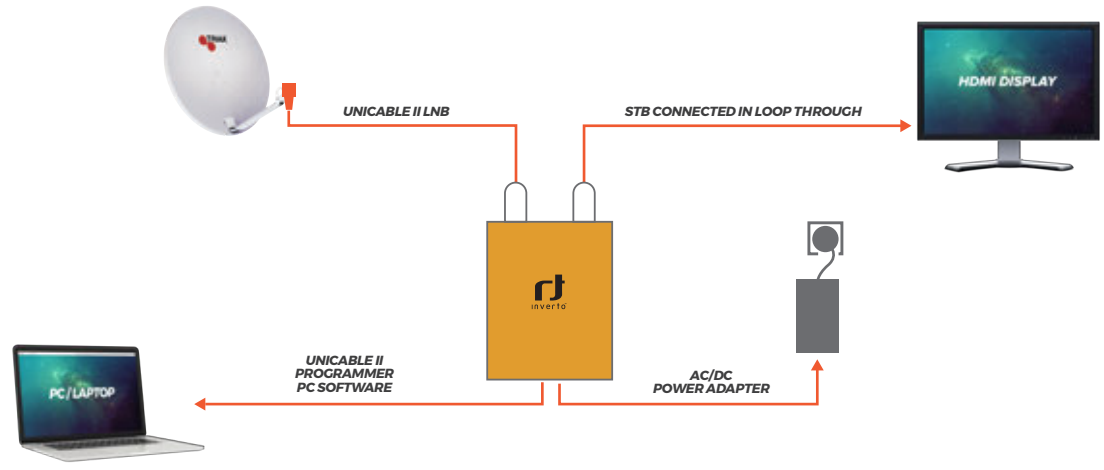
SPECIFICA	IV5393
Display and keys:	
Activity LED	- Yellow blinking: Communication activity between ODU and Programmer - Green: Configuration files in ODU and Programmer are identical
Power LED	Red: The Programmer is powered over the USB connection Orange: The Programmer is powered over the 12Vdc input
Button	Short press: Transmit a configuration file stored in the Programmer to the ODU device Long press: Download the configuration file of the ODU and compare to a file stored in the Programme
Power consumption	
Programmer only	5Vdc, 50mA (can be powered over the USB interface)
ODU power	13 ÷ 18V, 600mA max. Powering and programming of an ODU device requires use of the supplied AC/DC adapter
AC/DC adapter	
Input voltage	100 ÷ 240Vac, 50/60Hz, 0.8A max.
Output voltage	12Vdc
Output current	2A
Short circuit protection	Yes
Low Voltage Directive	2014/35/EU
Electromagnetic Compatibility Directive	2014/30/EU
Eco-Design Directive	2009/125/EC
Others	
Interfaces	1x Satellite IF, F-type 1x Satellite IF loop-through out, F-type 1x USB (Type-B)
Loop-through loss	1dB max.
Control protocols	DiSEqC™ commands extension according to CENELEC EN50494 and/or EN50607, DiSEqC2.0.





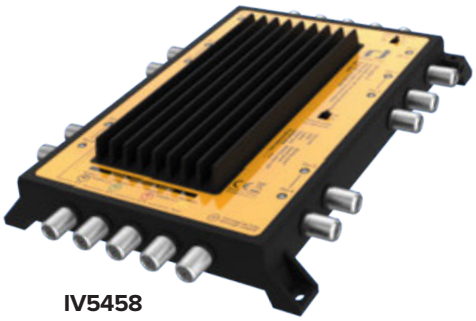
IV5393

SCHEMA COLLEGAMENTO



IV5413 - IV5458 Unicable II multiswitch with 4/8/12 auto-detect output ports

IV5413



IV5458

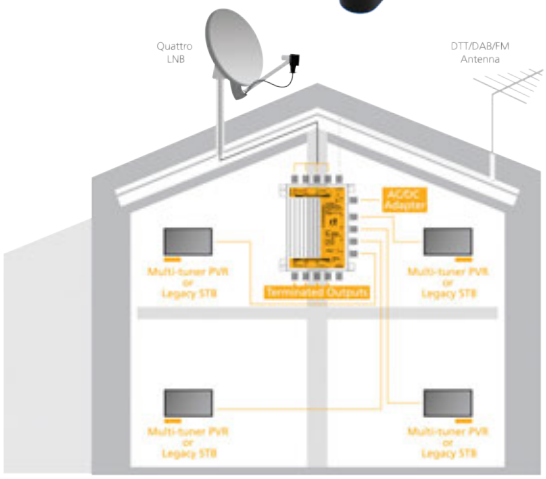
IV6208

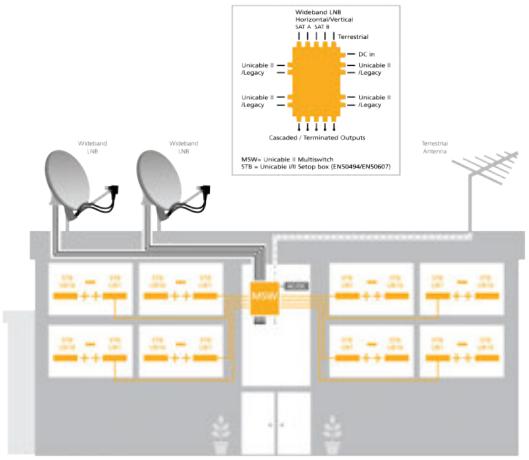
SPECIFICA	IV5413	iV5458 / IV6208
Frequency range: satellite	Quattro LNB: 950 ÷ 2150MHz (Standard) Wideband LNB: 300 ÷ 2350MHz	
Frequency range: terrestrial	47 ÷ 862 MHz	
Inputs	4x IF inputs: From 1x Quattro LNB (default) From 2x Wideband LNBs 1 x UHF/VHF input from Terrestrial antenna	
Outputs	4x Loopthrough satellite IF outputs* 1x Loopthrough terrestrial output 4x auto-detect Unicable II / Legacy output ports with combined terrestrial signal.	4x Loopthrough satellite IF outputs* 1x Loopthrough terrestrial output 8x (**12x IV6208**) auto-detect Unicable II / Legacy output ports with combined terrestrial signal.
Input power range	-50 ÷ -5 dBm	
Output signal level (AGC)	-25 dBm (83 dBuV)	
RF isolation: satellite/terretsrial (input)	25 dB min.	30 dB min.
RF isolation: satellite/satellite (input)	25 dB min.	30 dB min.
RF isolation: satellite ch/ch (UBs, output)	28 dB min.	30 dB min.
Loop-through loss: satellite	4dB max. (loss)	
Loop-through loss: terrestrial	8 dB max. (loss) [amplification=OFF] 8 dB min. (gain) [amplification=ON]	8 dB @ 400 ÷ 600 MHz (12 dB max.) (loss) [amplification=OFF] +11 dB @400 ÷ 600 MHz (+7 dB min.) (gain) [amplification=ON)
Gain: Unicable II™ (dCSS) output (out of AGC)	25 dB min.	
Gain: terrestrial signal	-27 dB [amplification = OFF] 9 dB [amplification = ON]	-19 dB @ port 4 over 400 ÷ 600MHz (-25 dB min.) [amplification = OFF] +1 dB @ port 4 over 400 ÷ 600MHz (-9 dB min.) [amplification = ON] * 1dB difference between adjacent ports, -1 dB from port 1 through to port 8
Integrated phase noise	1.5° max.	
Control protocols	EN50494 (SatCR), EN50607 (dCSS), DiSEqC1.0/2.0, 13 ÷ 18 V - 0 / 22 Khz	
Legacy port switching	V/L => 13 V/0 kHz , V/H => 13 V/22 kHz H/L => 18 V/0 kHz , H/H => 18 V/22 kHz	
Input/Output impedance	75 Ω (F-type)	
LNB power supply	500 mA max. @ 18 Vdc	
Power consumption	600 ÷ 900 mA @ 10 ÷ 20 Vdc max.	1200 mA @ 19 Vdc (no load) / 365 mA @ 11 ÷ 20 Vdc (no load)
Working temperature	-20° ÷ +50° C	
IP protection	IP54	
Product dimensions (W x D x H)	15.2 cm x 11 cm x 2.6 cm	210 mm x 146 mm x 3.7 mm / 30.2 x 15.3 x 3.8 cm
Weight	280 g	500 g / 765 g

PRODOTTO CORRELATO IV5393

PRODOTTO CORRELATO SAT PAL

IV5294 - Multiswitch Unicable II dCSS Cascade Wideband





SPECIFICA	IV5294
Frequency range: satellite	- Quattro LNB: 950 ÷ 2150 MHz (default) - Wideband LNB: 300 ÷2350 MHz
Frequency range: terrestrial Inputs	47 ÷ 862 MHz 4x IF inputs: - for 1x Quattro LNB (default) - or 2x Wideband LNBs 1x UHF/VHF input for terrestrial antenna
Outputs	4x Loopthrough satellite IF outputs 1x Loopthrough terrestrial output 1x Unicable II (dCSS/EN50607) output, dynamic (default) or statis mode, supporting up to 32 UBs. With combined terrestrial signal. 1x Universal (Legacy) by default upon power up, auto switch to Unicable II™ upon receiving EN50494/EN50607 command. With combined terrestrial signal.
Output signal level (AGC)	Configurable (default -25 dBm)
RF isolation: satellite/terrestrial (input)	25 dB min.
RF isolation: satellite ch/ch (UBs, output)	28 dB min.
Loop-through loss: satellite	3 dB max.
Gain: Unicable II™ (dCSS) output (out of AGC)	25 dB min.
LO phase noise @ 1 kHz	-80 dBc/Hz max.
Integrated phase noise	1.5° max.
Control protocols	DiSEqC1.x/DiSEqC2.0, EN50494/EN506
Legacy port switching	V/L => 13 V/0 Khz , V/H =>13 V/22 Khz H/L => 18 V/0 Khz , H/H => 18 V/22 Khz
Input/Output impedance	75 Ω (F-type)
LNB power supply	300 mA max. @ 13 ÷ 18 Vdc
Power consumption	500 mA @ 13 Vdc max.
Working temperature	-20° ÷ +60° C
IP protection	IP54
Product dimensions (W x D x H)	11.35 x 11.05 x 20.8 cm
Weight	165 g

PRODOTTO CORRELATO
IV5393

IV5346 - IV5582 Power supply

IV5346

IV5582

SPECIFICATION	IV5346	IV5582
Input voltage	100 ÷ 240 Vac	
Input frequency	50 ÷ 60 Hz	
Output voltage	19 Vdc	20 Vdc
Output current	0.94 A max.	3.25 A
Output connector	F-type (male)	
Cable length	DC: 1.5 m	AC: 1.8 m, DC: 1.5 m
Product dimensions	7 cm x 4.8 cm x 6 cm	12.1 cm x 5.35 cm x 3.2 cm
Working temperature	0° ÷ +40° C	-5° ÷ +45° C
Weight	150 g	250 g

J8203 - HDMI Modulator

SPECIFICA	UNITA'	J8203
INGRESSO HDMI		
RISOLUZIONE VIDEO	-	576i fino a 1080p
CODIFICA VIDEO	-	H264 / AVC
CODIFICA AUDIO	-	MPEG1 Layer II / AAC
TIPO DI CONNETTORE	-	HDMI Tipo A
INGRESSO RF		
FREQUENZA	MHz	174 ÷ 790
PERDITA ALL'USCITA RF	dB	2
USCITA RF (= SEGNALE RF IN INGRESSO + TRANSPONDER HDMI MODULATO)		
FREQUENZA DEL CANALE MODULATO	MHz	790
LIVELLO DI USCITA	dBµV	49 ÷ 79 (regolabile)
MER	dB	Tip. 38

Main Features:

- Converte il vostro segnale locale HDMI in un segnale RF, pronto per la distribuzione su cavi coassiali
- 1 ingresso HDMI, capace di ricevere tutte le risoluzioni fino a 1080p
- 1 ingresso RF, per by-pass dei segnali terrestri o via cavo
- 1 uscita RF DVB-T
- Immagine perfetta grazie al MER, paragonabile alla dotazione delle altre centrali Johansson
- Ottimizzato per l'utilizzo di più modulatori a cascata sulla vostra rete coassiale.

J8600 - Digital Compact Headend Universe

Main Features:

- receives 1 transponder from any DVB source (satellite, terrestrial or cable)
- decrypts the PayTV channels, when a professional CAM is inserted
- puts the demodulated transponder on your private coaxial and IP network
- can work standalone to insert channels in your existing network
- more products can be combined to a make a complete headend:
  - cascadable inputs and outputs
  - remote powering capabilities
- compatible with SD and HD, with MPEG2 and MPEG4
- perfect picture quality thanks to a MER, comparable to premium headend equipment
- Plug&Play thanks to a built-in WebGUI

This Universal Compact Headend enables you to receive any transponder from satellite, terrestrial or cable and put it on your coaxial and IP network.

SPECIFICA	J8600
Input	
Number of inputs	1 with passive loop-through (-2 dB)
Tuners	1
Frequency Range	42 ÷ 2150 MHz
Input Level	44 ÷ 89 dBµV
Standard	DVB-S/S2 I DVB-T/T2 I DVB-C
DC remote power for LNB or LNA	0 - 13 - 18 V / 22 kHz / DiSEqC, EN50494, EN50607 350 mA
Output: RF	
Number of outputs	1 RF with passive loop-through (-2 dB)
Multiplex	1
Frequency range	174 ÷ 862 MHz
Output level	57 ÷ 102 dBµV (adjustable)
Standard	DVB-T / ISDB-T
Modulation error rate (MER)	40 dB
Output: Ethernet	
Number of outputs	1 GB Ethernet
Standard	IEEE 802.3ab 10/100/1000 Base-T
Protocol	Multicast IP / UDP
General	
CI slot	1
Input voltage	12 ÷ 20 Vdc
Power consumption	7 W (without CAM and without remote power)
DC jack	Ø 2.1 mm
Powering remote units	Yes, 1 unit can power other units
Operating temperature	0° ÷ +50° C
Dimensions	222 x 142 x 50 mm
Weight	1,1 Kg
Accessories	15 Vdc power adapter, 1 Ethernet cable

LOHDSTR3 - Strimmy

H.265 | H.264 | 1080p | 1080i | HDMI | USB

In 2 mosse la tua TV ti segue su smartphone e tablet

Strimmy è un dispositivo che permette la visione dei contenuti provenienti dall'ingresso HDMI o dalla porta USB, con la possibilità di poter sovrapporre immagini (ad esempio loghi), scritte colorate (scorrevoli e non) in varie dimensioni, cornici e figure geometriche colorate, per fare pubblicità o mascherare parte dello schermo. Per la configurazione si avvale di un'interfaccia web che consente di modificare ogni opzione disponibile, in modo semplice e veloce: si può controllare lo stato dell'apparato, selezionare quale ingresso utilizzare, gestire i parametri dei flussi video/audio, personalizzare cosa aggiungere in sovrimpressione al video in modo da creare messaggi pubblicitari o promuovere eventi locali, decidere quali filmati visualizzare fra quelli caricati sulla chiavetta usb da mandare in loop, oltre ad amministrare i parametri di sistema o semplicemente fare un riavvio del dispositivo (anche programmabile).
Strimmy viene fornito in kit con un Access Point Wi-Fi 6 AX1800 che ha la capacità di far collegare fino a 40 dispositivi mobili, che possono vedere lo streaming utilizzando sia iOS (iPhone, iPad) che Android (*occorre un browser con supporto API Google*). Inoltre è possibile visualizzare il flusso audio/video anche su computer Apple usando Safari oppure servirsi del software VLC e connettendosi mediante l'utilizzo del protocollo RTSP: l'installazione di questo programma permette quindi la visione anche su computer desktop e notebook che usano altri sistemi operativi, oltre che su apparati Android Box collegati ad un monitor o ad un televisore.
Utilizzando l'uscita HDMI collegata ad un monitor è possibile guardare in tempo reale cosa sarà visualizzato dai dispositivi connessi in Wi-Fi, compreso gli oggetti in sovraimpressione. Risulta quindi adatto a vari contesti come ristoranti, hotel, centri commerciali, palestre, ospedali, negozi, supermercati, strutture balneari, chalet...
Compatibile tivùsat.

Il kit di vendita proposto, comprende i nostri apparati con codice **LOHDSTR3** (*Strimmy*) e **WLAERIALD4X** (*Access Point*), che sono già configurati e pronti all'uso in 2 semplici mosse: prima, occorre scansionare il codice QR per collegarsi alla WI-Fi di Strimmy e poi basta scansionare l'altro codice QR per visualizzare sul dispositivo il contenuto che vuoi far visionare ai tuoi clienti/ospiti.

Scarica manuale operativo

Visualizza sito e video demo

LOHDSTR3 - Strimmy

H.265 | H.264 | 1080p | 1080i | HDMI | USB

SPECIFICA	LOHDSTR3
Segnale	
HDMI	HDMI 1.4a / HDCP 1.4
Risoluzione	1080p/1080i/720p/480p/576p/480i/576i (max 60Hz), compatibile con risoluzione VESA
Audio analogico	Ingresso (1,5 Vpp)
Codifica	
Video	H.265 / H.264 high profile (@level 4.1)
Audio	MP3, AAC-LC, G.711 (u-Law/a-Law)
Ritardo	≤ 70 ms
Video bitrate	512 Kbps ÷ 15 Mbps
Audio bitrate	AAC: 16 ÷ 256Kbps / G.711: 64Kbps
Trasmissione	
Protocolli	RTP/RTSP, RTMP, HLS, MPEG-TS Push and HTTP
Protocollo controllo	TCP
Protocollo network	HTTP / Onvif
Protocollo PTZ	Pelco-D / Sony Visca (through RS485 extend adapter)
Generico	
Ingresso/uscita video	1x HDMI / 1x HDMI loop out
Video source	HDMI
Ingresso/uscita audio	2x jack 3,5mm
Porta LAN Ethernet	1x RJ-45, 10/100/1000Mbps
USB	1x USB 2.0
Alimentazione	12 Vdc, 2 A
Consumo	≤ 3W
Temperatura operativa	-20° ÷ +75° C

LOHDSRT3 (Strimmy) è un apparato completamente configurabile da interfaccia web, che può essere utilizzato per hotel, ristoranti, conferenze, palestre, centri commerciali, ospedali, negozi, supermercati, strutture balneari, chalet...

HDMI IN-OUT | TCP/IP | USB

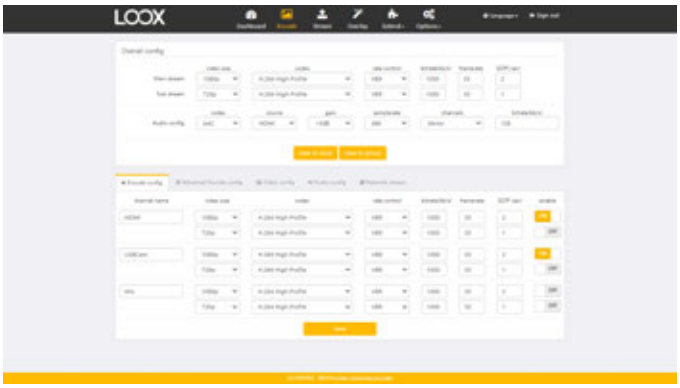
LOHDSTR3

- Ingresso video: un canale HDMI ed una porta USB
- Risoluzione video fino a Full HD 1080p@60 fps
- Possibilità di gestire fino a 4 gruppi di streaming TS over IP in uscita
- Supporta codec video H.265 / H.264 e la compressione audio MP3 e AAC
- Modalità bitrate: CBR/VBR 16Kbit/s ÷ 12Mbit/s
- Impostazioni di risoluzione dello streaming configurabili
- Sono gestite le impostazioni del frame rate GOP
- Possibilità di impostare i parametri dell'immagine
- Inserimento in sovraimpressione al video d'ingresso di loghi e scritte scorrevoli
- Uscita video: flussi di uscita multipli per supportare broadcast, VOD, IPTV e OTT, dispositivi mobili / web, set top box
- Modalità di uscita audio commutabile: sinistra, destra e stereo / Guadagno audio regolabile
- Configurabile in Multi-bitrate, Multi-risoluzione, Multi-protocollo
- Supporta protocolli HLS, RTSP, HTTP, UDP e RTMP
- Compatibile con il protocollo video di rete HDCP e ONVIF
- Qualsiasi browser iOS (iphone, ipad, MacBook ecc.) è in grado di ricevere flussi da **Strimmy** tramite il protocollo HLS senza installare alcun lettore software
- Qualsiasi dispositivo/decoder è in grado di ricevere flussi da **Strimmy** direttamente tramite protocollo RTSP con l'utilizzo di lettori software (come ad esempio VLC)
- Il sistema supporta Windows, Windows Server, Linux
- Supporta l'architettura basata sul flusso standard di Microsoft (architettura WDM), supporta Microsoft WMENCODER, compatibile con l'architettura software Windows VFW e la modalità WDM
- Totale gestione del dispositivo da interfaccia web
- Modalità full-duplex 1000Mbps

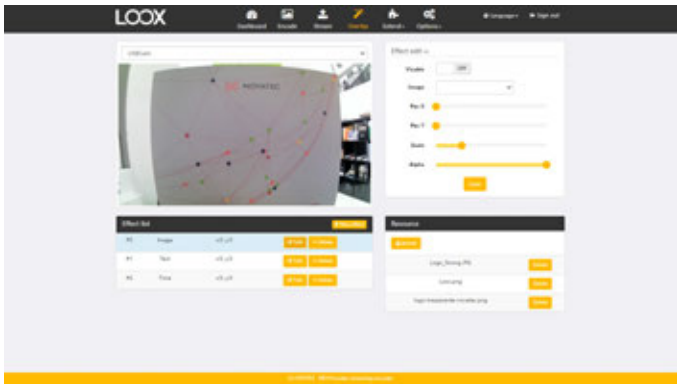
*Fornito in kit comprendente **LOHDSTR3** e **WLAERIALD4X** già configurati e pronti all'uso.*

LOHDSTR3 - Strimmy

H.265 | H.264 | 1080p | 1080i | HDMI | USB

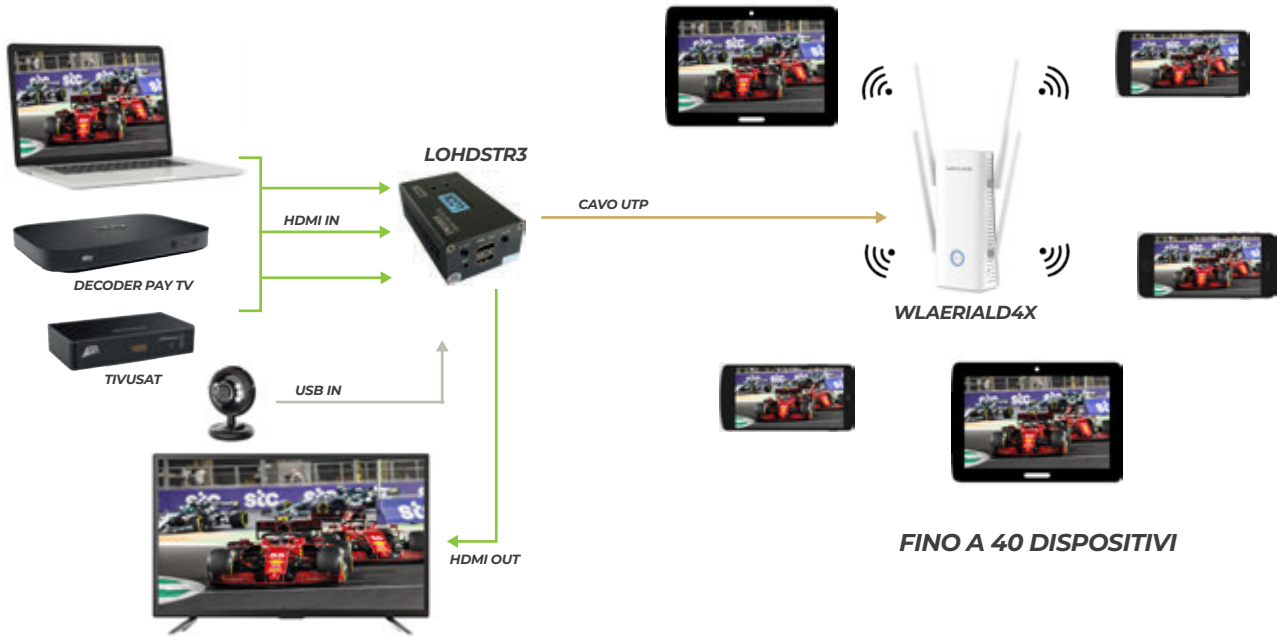


LOHDSTR3
Fornito di interfaccia web per configurare tutte le impostazioni e controllare le numerose opzioni rese disponibili: viene utilizzata anche per la personalizzazione del segnale presente all'ingresso HDMI con immagini (ad esempio loghi), scritte (anche scorrevoli e colorate) o figure geometriche. Con l'access point **WLAERIALD4X** (che è fornito già configurato nel kit proposto) quanto elaborato viene poi distribuito ai dispositivi connessi alla sua Wi-Fi.



LOHDSTR3 (STRIMMY)

SCHEMA COLLEGAMENTO



IKUSI Serie Modulare HTI424

SMARCAM53 + TIVUSCPRO

IK3866 - Telaio supporto moduli BACK-500
IK3865 - Alimentatore moduli PSU-150
IK3864 - Transmodulatore HT-404 FTA
IK3863 - Transmodulatore HT-424 2xCI
IK3868 - Amplificatore HTA-125

Centrali Ikusi Serie HTI 424
Il transmodulatore serie HTI424 dispone di 4 ingressi a larga banda DVB-S/S2 e DVB-T/T2 ed è configurabile anche da remoto, tramite interfaccia WEB SERVER residente nel modulo stesso. Grazie alla sua struttura modulare ed alla gestione "MULTI" della CAM PRO, consente di condividere le CAM su più moduli HTI e quindi di distribuire segnali SAT e TV (sia in chiaro che codificati), con una propria numerazione LCN ed è quindi adatto all'installazione in strutture ricettive di qualsiasi dimensione e condomini.
I moduli HTI424 accettano in ingresso 4 tipi di segnali: DVB-T2, DVB-S2, DVB-C o IPTV.
Controllo totale del multiswitch tramite protocollo DiSEqC. Le 4 uscite IPTV MPTS, in combinazione con gli ingressi IPTV, consentono di configurare i collegamenti di scambio del servizio. I 4 Mux di uscita DVB-T / DVB-C sono configurabili singolarmente su tutta la banda, inoltre possono generare 64 streaming in uscita formato STPS e 4 in formato MPTS. Ciò consente di prevedere un futuro incremento dei servizi in modo che i televisori li abbiano già nelle loro liste, evitando la necessità di risintonizzazione. Ogni modulo della serie HTI è in grado di decodificare circa 20 canali SD/HD della piattaforma **tivùsat** tramite l'utilizzo delle CAM PRO.

SPECIFICA	*HTI424*
Ingressi	**DVB-S/S2 - DVB-T/T2 - DVB-C - IPTV**
Numero di ingressi RF	4
Common Interface (CI)	2
Frequenza di ingresso	DVB-T/T2 47 ÷ 862 MHz - DVB-S/S2 950 ÷ 2150 MHz - DVB-C 47 ÷ 862 MHz
Livello di ingresso	40 ÷ 92 dBuV
Massima corrente d'ingresso	100mA ingresso 2/4 - 250mA ingresso 1/3
Supporto DiSEqC	Fino a 16 polarità con DiSEqC 1.0
Ingressi IPTV	
Interfaccia di ingresso	RJ-45 Gigabit
N. ingressi	4 (SPTS o MPTS)
Incapsulamento IP	UDP: UDP+RTP
Modalità ricezione IPv4	Multicast
Supporto IGMP	Si, IGMP v2
Bitrate in ingresso	216 Mbps (per ingresso) / 850 Mbps (totale)
Uscite RF	
Numero di uscite	4 canali DVB-T DVB-C (47 ÷ 863 MHz)
MER	> 40 dB
Livello d'uscita	85 dBuV
Velocità di trasmissione	31.7 Mbps (max)
Modalità funzionamento DVB-T	2K / 8K
Larghezza di banda in uscita DVB-T	6 / 7 / 8 MHz
Formati modulazione DVB-C	16QAM / 32QAM / 64QAM / 128QAM / 256QAM
Uscita IPTV	
Uscite STPS / MPTS	64 / 4
Protocolli trasmissione	STPS: UDP e RTP / MTPS: UDP
Uscita bitrate	850 Mbps (max)
Altre specifiche	
Alimentazione / Assorbimento	24 Vdc / 20 W
Temperatura funzionamento	0° ÷ +45° C
Dimensioni / Peso	230 x 195 x 32 mm / 1.165 Kg

ALCAD Serie Modulare Himalaya

TM-202

TMS-214

SMARCAM53 + TIVUSCPRO

Trasmodulatore Serie TM-102 / TM-111 / TM-112
Trasmodulatore serie Himalaya per i servizi televisivi digitali satellitari DVB-S/S2 o digitali terrestri DVB-T/T2 in DVB-T o DVB-C.
Ogni modulo seleziona i servizi da 2 transponder satellitari DVB-S/S2 o canali terrestri DVB-T/T2 e li include in un canale DVB-T o DVB-C.

Trasmodulatore Serie TM-202 / TMS-204 / TMS-214
Trasmodulatore serie Himalaya per i servizi televisivi digitali satellitari DVB-S/S2 in DVB-T o DVB-C. Ogni modulo seleziona i servizi da quattro transponder satellitari DVB-S/S2 e li include in due canali DVB-T o DVB-C. I demodulatori sono compatibili Multistream.

I trasmodulatori possono essere configurati utilizzando un browser web da un computer collegato tramite cavo ethernet.
I moduli **TM-111, TM-112 e TMS-214** sono in grado di decodificare i canali SD/HD della piattaforma **tivùsat** con l'utilizzo delle CAM PRO.

SPECIFICS	*TM-1XX*	*TMS-2XX*
Inputs	**DVB-S/S2 - DVB-T/T2**	**DBV-S/S2**
RF in	1x (**TM-111 model**) / 1 with duplexing or 2x independent	
Demodulators	1x (**TM-111 model**) / 2	4
Input frequency	DVB-T/T2 47 ÷ 862 MHz - DVB-S/S2 950 ÷ 2150 MHz	DVB-S/S2 950 ÷ 2150 MHz
Input level	40 ÷ 95 dBuV	45 ÷ 95 dBuV
Symbol rate	DVB-S/S2: 1 ÷ 45 Mb	
DVB-T bandwidth	DVB-T: Auto, 8, 7, 6 / DVB-T2: Auto, 8, 7, 6, 5, 1.7	
LNB power supply	DiSEqC 2.0 13÷18 Vdc - 350 mA	
Common Interface (CI)	1x (**TM-111** and **TM-112 model**)	1x (**TMS-214 model**)
RF outputs	**DVB-T - DVB-C**	
Channels number	1 / 2x (TM-202 model) DVB-T DVB-C (47 ÷ 862 MHz)	2x DVB-T DVB-C (47 ÷ 862 MHz)
Output level	80 dBuV	
Output level adjustement	20 dB	
MER	39 dB	
DVB-C symbol rate	8 Mbps (max)	
DVB-T modes	2K / 8K	
DVB-T bandwith	6 / 7 / 8 MHz	
Modulation	DVB-T: QSPK, 16QAM, 64QAM / DVB-C: 16QAM / 32QAM / 64QAM / 128QAM / 256QAM	
Altre specifiche		
Alimentazione / Assorbimento	12 Vdc / 730mA max	12 Vdc - 1030 mA max
Temperatura funzionamento	-10° ÷ +50° C	
Dimensioni	256 x 138 x 29 mm	

TM-102 (Z19120254) - Transmodulator DTT FTA 2x In - 1x Out
TM-111 (Z19120252) - Transmodulator DTT 1x In/Out - 1x CI
TM-112 (Z19120253) - Transmodulator DTT 2x In - 1x Out - 1x CI
TM- 202 (Z19120259) - Transmodulator DTT FTA 2x In/Out
TMS-204 (Z19120260) - Transmodulator Sat FTA 2x In/Out
TMS-214 (Z19120261) - Transmodulator Sat 2x In - 2x In/Out - 1x CI
FA-512 (Z19120255) - Power supply for TMX-XXX transmodulators
SP-743 (Z19120237) - Frame D47 19" rack for FA-512 + 7 modules
SP-244 (Z19120233) - Frame D47 for FA-512 + 9 modules

LHH8T4C - Centrale satellitare 8x8 modulare da rack

DVB-T OUT + IPTV Ready

tivùsat HOTEL

- Centrale universale completa di Interfaccia WEB rapida ed intuitiva
- 8 Ingressi RF DVB-S/S2/S2X per sfruttare al massimo gli ingressi (4x Ingresso Singolo - 2x Ingresso Twin)
- 8 Uscite RF canali programmabili singolarmente ed indipendenti tra loro (non a blocchi di 4/8 canali) / 120 Uscite IP
- 4 Slot Common Interface per Cam Professionali
- Generazione automatica indirizzi IP (modificabile)
- Gestione automatica con riaccensione su eventuale surriscaldamento

SMARCAM53 + TIVUSCPRO

LHH8T4C è una centrale satellitare professionale 8x8 ad alta tecnologia con chassis ad 1 Unità Rack, modulare e flessibile in grado di gestire i contenuti TV, SAT, IPTV e rivolta al mercato dell'***Hospitality***. Il transmodulatore è progettato per ricevere varie tipologie di moduli (come ricevitori SAT per canali FTA o codificati con slot per CAM) in grado di soddisfare tutte le principali richieste di trasmissione video, di ricezione del segnale, decodifica e multiplexing dei contenuti, modulazione ed elaborazione IP in funzione delle schede presenti nello chassis. Il dispositivo supporta fino a 8 ingressi DVB-S/S2/S2X e 8 uscite QAM o OFDM nonché un'uscita ASI, e può facilmente eseguire il multiplexing dei flussi IP e dei programmi satellitari su frequenza RF. Rappresenta quindi la scelta perfetta per la distribuzione dei contenuti Audio/Video via cavo e IPTV in strutture quali hotel, villaggi, ospedali, campeggi, scuole/università, centri commerciali, nei grossi complessi residenziali o condomini.
L' avanzata e intuitiva interfaccia Web consente di gestire facilmente i segnali da acquisire dai diversi transponder e di configurare tutti i vari parametri di ogni mux (ONID.TSID, NetID, etc...) e di ogni programma all'interno di ogni singolo MUX (LCN, SID, PID, etc...).

SPECIFICA	LHH8T4C
Modulo FTA	
Numero di ingressi RF	4x DVB-S/S2/S2X (connettore F femmina) + 2 slot CI
Frequenza / Livello di ingresso	950 ÷ 2150 MHz / 38 ÷ 88 dBuV
Controlli LNB / Telealimentazione	14V, 18V, 0/22 Khz, DiSEqC 1.0 / 1.1 / manuale / 400 mA max per connettore SAT
Modulo 4CI	
Numero di ingressi RF	4x tuners twin SAT DVB-S/S2/S2X + 2x slot CI
Frequenza / Livello di ingresso	950 ÷ 2150 MHz / 38 ÷ 88 dBuV
Controlli LNB / Telealimentazione	14V, 18V, 0/22 Khz, DiSEqC 1.0 / 1.1 / manuale / 400 mA max per connettore SAT
Generali	
Demodulatori	DVB-S: QPSK, 8PSK - DVB-S2: QPSK, 8PSK, 16APSK, 32APSK DVB-S2X: QPSK, 8PSK, 16APSK, 32APSK, 64 APSK
FEC	DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8 - DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB-S2X: 11/15, 7/9, 4/5, 5/9 (normal FEC FECFRAME)
Symbol Rate	DVB-S/S2: 1 ÷ 45 Msps - DVB-S2X: 1 ÷ 34 Msps
Modulo LHCT8O	
Uscite RF	8x Multiplex digitali DVB-T indipendenti (connettore F femmina)
Frequenza di uscita	47 ÷ 862 dB
Livello d'uscita	85 ÷ 105 dBuV max
Standard di trasmissione DVB-T	QPSK / 16QAM / 64QAM / (ETSI EN 300744)
Modulazione	1/4, 1/8, 1/16, 1/32
Portanti	2K, 8K
MER RF	> 42 dB
IPTV	
Flussi Ingresso / Uscita (STPS/MPTS)	120 / 120
Protocolli trasmissione	STPS: UDP e RTP / MTPS: UDP
Altre specifiche	
Alimentazione / Consumo	100 ÷ 240 Vac - 50-60 Hz / 120 W max
Temperatura operativa	0° ÷ +50° C (senza le CAM)
Dimensioni	444 x 336 x 44 mm

DDM4CI, DDSX8CI - SAT-IP Server

DDM4CI

DDSX8CI

SMARCAM53 + TIVUSCPRO

DDM4CI - DDSX8CI

The IP Server converts one or more DVB input sources into IP signals according to the SAT>IP standard, so that numerous clients in the LAN or WLAN can be supplied with TV signals.
It has tuners with the reception types DVB-S/S2,DVB-C/C2, DVB-T/T2 and ISDB-T, which can be combined. For example, a fallback solution with DVB-T can be provided in addition to SAT reception. In this case, the IP server automatically switches the requested tuner to the correct mode. A 5 port Gigabit switch is available for each server, so that additional devices can be added to your network. In addition, this switch can be used in multicast mode for controlled broadcasting of the streams (Stream on LAN Output), so that only certain ports let out certain streams.
With RTSP (Real Time Streaming Protocol), you can distribute the LiveTV signal in your local home network at home or, for example, in smaller hotels simply via LAN or WLAN, regardless of whether SD, HD or UHD. As a multicast streaming server via the RTP or UDP protocol, IP Server distributes the streams with MPTS technology. This makes it possible to stream one or more channels or even whole transponders with only one stream and tuner. MPTS compatible clients such as Panasonic® TVs can be supplied with a large number of channels in this way.

SPECIFICA	DDSX8CI	DDM4CI
Main Feature		
Tuner	8x DVB-S/S2/S2X	4x DVB-S/S2 - DVB-C/C2 - DVB-T/T2 - ISDB-T/T2
CI Module	2 slot	
LNB power	4x max 19 Vdc - 1 A pulse corrent, 500 mA continuos current	
DVB-S/S2 modulation	QPSK / 8PSK up to 46 MSym with up to 120 Mbit / s (for new UltraHD transponders)	
DVB-S/S2 L-band	950 ÷ 2.150 MHz	
DVB-S/S2 DiSeqC	2.x fully supported	
DVB-T/T2 frequency range	-	49 ÷ 861 MHz, 2K & 8K OFDM
DVB-C/C2	C frequency range: 51 ÷ 858MHz - C2 demodulation 16, 64, 256, 1024, 4096 QAM	
ISDB-T	Conforms to ARIB STD-B31 - 6 MHz, 7 MHz and 8 MHz BW support	
ISDB-C	TSMF support	
Ethernet port	5x RJ45 Managed Gigabit-Switch	
MAC address	8192	
Streaming Engine		
Unicast	Up to 12 clients (depending on the number of tuners installed)	
Streaming	Up to 12 full transponders (depending on the number of tuners installed)	
Streams	Up to 12 streams for Unicast or Mulitcast, also in mix-operation	
Features	RTP/UDP streaming with very low latency and jitter	
General		
Power / Consumption	15 Vdc / 18 W (max) - External power supply	
Temperature range	-10° ÷ +50° C	
Dimensions	240 x 136 x 42 mm	

TX492871, TX492872 - Compact headend

TX492871

TX492872

Centrale compatta - Nuova piattaforma, nuovi vantaggi
Basato sulla nuova piattaforma software all'avanguardia, le opportunità sono infinite. Il software aggiornato gratuito offre ai clienti nuovi ed esistenti funzioni e vantaggi aggiuntivi, insieme a nuove configurazioni hardware per soddisfare le tue esigenze.
Risparmia tempo e costi, con installazione e gestione remota facili e veloci.

Caratteristiche principali:
- Configurazione del canale ottimizzata con multiplexing avanzato e tecnologia IP Pool
- Multiswitch SCR integrato* per risparmio di costi, tempo e spazio
- Non c'è bisogno di risintonizzare i televisori nelle camere grazie al PID Management
- 16 segnali di ingresso DVB-S / S2 e 6 segnali di ingresso DVB-T/T2/C (**TX492872**)
- 16 modulatori a banda intera QAM o COFDM (commutabili)
- 8 interfacce CI per CAM
- Multiplexing sia in uscita che CAM (interfaccia CI)
- Il servizio in più lingue consente distribuzioni multiple di un servizio con tracce audio (lingua) diverse
- Sistema di raffreddamento a temperatura controllata con ventole integrate: aumenta la durata dell'apparecchiatura

SPECIFICA	*TX492871*	*TX492872*
Caratteristiche		
Segnali ingresso supportati	16x DVB-S/S2	16x DVB-S/S2 e 6x DVB-T/T2
Segnali uscita supportati	16x QAM/COFDM	
Interfaccia CI	8 slot CI	
Intervallo frequenza (uscita RF)	308 ÷ 862 MHz	
Impedenza (uscita RF)	75 Ohm	
Punto di test	-20 dB	
Livello uscita max	QAM 95 dBµV / COFDM 93 dBµV	
MER	QAM >=43 dB / COFDM>= 40 dB	
LCN (HD)	Si	
Interfaccia PC	2x RJ45	
Manutenzione remota		
Accesso remoto	Si	
Aggiornamenti software	Si	
HTTPS	Si	
Generali		
Alimentazione / Consumo	100 ÷ 264Vac / 90 W (max)	
Corrente LNB (max)	4x 300 mA	
Dimensioni	430 x 220 x 90 mm	
Temperatura di esercizio	-10° ÷ +50°C	

TX383104, TX383105 - Ethernet over Coax Controller

TX383104

EoC controller (32/2 B)

TX383105

EoC controller (64/4 B)

Ethernet over Coax (EoC) allows ethernet traffic to be sent over a coax network in coexistence with TV signals.
EoC is a straightforward system, well suited for retro-fitting into an existing coax installation with no or minor modifications.

TX383104, TX383105

Fast network connection to every room. None of the costs of new cables
The EoC controller is used as the main unit to control up to 32/64 endpoints in an EoC system. The controller acts as both an L2 switch for ethernet and as a media converter from ethernet to coax and back to ethernet, allowing both TV and data signals to use the same coax cable. Provided that G.hn and TV signals are controlled within the frequency ranges mentioned below. Combining of up to 32/64 Endpoints is possible on same COAX.

Main features:

- G.hn for data on 1 ÷ 200 MHz
- TV on 300-862 MHz
- 4x ethernet port
- Combining up to 64 EP's on same COAX
- 4x coax EoC out ports, supports port bundling
- 1x coax TV in port
- Supports VLAN tagging
- Status LED's + reset button on front

SPECIFICA	TX383104	TX383105
Characteristics		
Input	1x CoAX TV port	
Output	2x coax port	4x coax port
G.hn Standard	G.hn Wave 2 ITU-T G.9960 / ITU-T G.9963 (G.hn PHY) G.9962 (MAC & DLL)	
Frequency Range G.hn	2 ÷ 200MHz	
Frequency Range TV	300 ÷ 862 MHz	
Ethernet port	4x RJ45 Gigabit	
Traffic Management	VLAN: Portbased VLAN (802.1Q) Client Isolation (guest mode): Per SSID/VLAN Multicast: IGMP/MLD	
Crosstalk TV IN - EoC OUT	> 51 (@200MHz) dB	
Input level	< 115 (TV) dBµV	
Output level	100 (G.hn) dBµV	
Impedance	75 Ω	
Loss		
Through Loss TV/EoC IN - TV/EoC OUT	< 4 (300 ÷ 862 MHz) dB	< 8 (300 ÷ 862 MHz) dB
Through Loss EoC OUT - EoC Ana. Frontend	< 4.5 (@2 ÷ 200 MHz) dB	< 2.0 (@2 ÷ 200 MHz) dB
Return Loss EoC OUT / TV	> 10dB	
General		
Power / Consumption	220 Vac / 10 ÷ 25 W (max)	
Dimensions	430 x 220 x 45 mm	
Temperature range	0° ÷ +50° C	
Humidity - operating	+5 ÷ +95 %	

TX383235 - Ethernet over Coax MediaConverter

EoC MediaConverter - COAX to 1Gbps IP network

TX383235

Watch IPTV services through the new TRIAX EoC MediaConverter while maintaining DVB signals.
Reuse existing coax cables to add reliable 1Gbps IP network services for digital entertainment in the hospitality sector.
Ready to stream demanding content: 4K UHD, HDR & 60FPS.
Costs and disruptions are kept to a minimum, as new cables do not have to be installed.

Installed across the hotel quickly and efficiently, TRIAX EoC opens up a huge new range of viewing possibilities that satisfies the guest demands of today and the future: examples include Video on Demand, guest Wi-Fi or inhouse promotional channels.

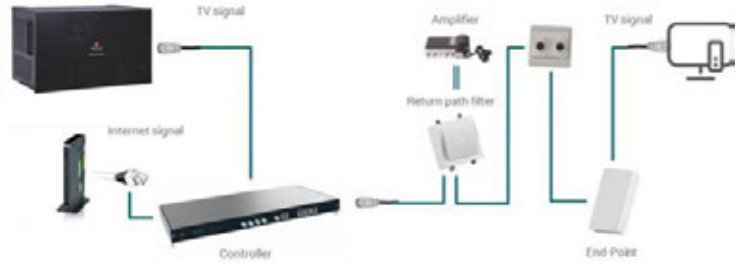
Main features:

- Enables high capacity digital content (HDTV, Ultra HD, gaming etc.)
- Serve guests their own streaming services directly onto hotel TVs
- Installation cost is kept to a minimum as existing cables can be reused to add reliable
- No loss of revenue or room bookings for the hotel
- Small footprint, and easy to mount behind TV
- Powered directly from the TV
- Very easy cabling to all major brands of TV sets.

SPECIFICA	TX383235
Characteristics	
Input	1x CoAX TV port
Output	1x coax port
G.hn Standard	G.hn Wave 2 ITU-T G.9960 / ITU-T G.9963 (G.hn PHY) G.9962 (MAC & DLL)
Frequency Range G.hn	2 ÷ 200MHz
Frequency Range TV	260 ÷ 862 MHz
Ethernet port	1x RJ45 Gigabit
Crosstalk TV IN - EoC OUT	> 52 (@0.3 ÷ 200MHz) dB
Input level	< 115 (TV) dBµV
Output level	100 (G.hn) dBµV
Impedance	75 Ω
Loss	
Through Loss TV/EoC IN - TV/EoC OUT	< 3.8 dB
Through Loss EoC OUT - EoC Ana. Frontend	< 3.7 dB
Return Loss TV	> 10dB
General	
Power / Consumption	4 ÷ 15 Vdc / 4 W
Dimensions	20 x 80 x 80 mm
Temperature range	-100° ÷ +40° C

TX383200 - Ethernet over Coax WiFi Endpoint

EoC Coax WiFi Endpoint



Example on how to use EoC Endpoint Coax WiFi

The EoC Coax Endpoints (EPC) are professional WiFi access points. EoC with WiFi is an easy way to build a reliable and powerful WiFi solution, that is completely managed by the EoC Controller.

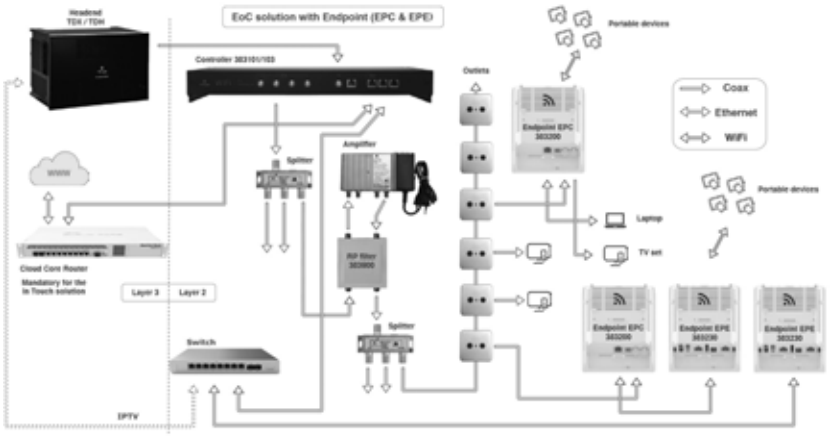
The EoC endpoint with WiFi enables WiFi coverage via coax cables. The endpoint is the last element in a system with an EoC controller, splitting your TV and data signals into WiFi/ethernet for data and coax for TV.

Main features:
- G.hn for data on 1 ÷ 200 MHz
- TV on 260 ÷ 862 MHz
- Linkspeed up to 1600 MBit/s (shared with other Endpoints on same COAX out)
- Dual internal antennas
- WiFi 802.11ac wave 2
- Wireless dual-band 2.4 Ghz and 5 Ghz with WPA/WPA-2 security
- Data rates 802.11ac 867 Mbps and 802.11n 300 Mbps
- 1x Ethernet port
- Supports VLAN tagging

SPECIFICA	TX383200
Characteristics	
TX power EIRP	Europe (ETSI)
RX sensivity	-91 dBm @2,4Ghz / -86 dBm @5Ghz
G.hn Standard	G.hn Wave 2 ITU-T G.9960 / ITU-T G.9963 (G.hn PHY) G.9962 (MAC & DLL)
Frequency Range G.hn	2 ÷ 200MHz
Frequency Range TV	260 ÷ 862 MHz
Ethernet port	1x RJ45 Gigabit
Traffic Management	VLAN: Portbased VLAN (802.1Q)
Crosstalk TV IN - EoC OUT	> 52 (@0.3 ÷ 200MHz) dB
Input level	< 115 (TV) dBµV
Output level	100 (G.hn) dBµV
Impedance	75 Ω
Loss	
Through Loss TV/EoC IN - TV/EoC OUT	< 3.8 dB
Through Loss EoC OUT - EoC Ana. Frontend	< 3.7 dB
Return Loss EoC OUT / TV	> 10 dB
General	
Power / Consumption	12 Vdc / 4 ÷ 8 W (max)
Dimensions	370 x 119 x 185 mm
Temperature range	-10° ÷ +40° C
Humidity - operating	20 ÷ 80 %

TX383230 - Ethernet over Coax WiFi Endpoint

EoC Ethernet WiFi Endpoint



Example on how to use EoC Endpoint - Ethernet with PoE/WiFi

The EoC Coax Endpoints (EPC) are professional WiFi access points. EoC with WiFi is an easy way to build a reliable and powerful WiFi solution, that is completely managed by the EoC Controller. TRIAX also provides Endpoints with WiFi (EPE) that can be connected over traditional Ethernet infrastructure (CAT cables) and powered over Ethernet. TRIAX EoC is a complete WiFi solution, that builds on the two most common cable infrastructures used today, all managed by the same EoC Controller.
The EoC Ethernet WiFi Endpoint, with dual band concurrent Wi-Fi, is used in conjunction with the Triax Ethernet over Coax Controller (EoC) and is intended to provide Wi-Fi access in rooms without Coax cables. This is often the case for rooms such as conference rooms, corridors, lobbies, bars, etc.
The PoE Access Point is powered via Ethernet (PoE) to make the installation easy and independent of a power outlet. This will require the installation of a e PoE+ compliant Ethernet switch connected to the EoC Controller.
The PoE Access Point also has a PoE output (passthrough) to supply power to other PoE devices. This could be a 2nd PoE Access Point, an IP phone, a Camera or other devices in the same room.
If the PoE output is not used, the AP can be switched to power save mode to accept a reduced PoE input power.

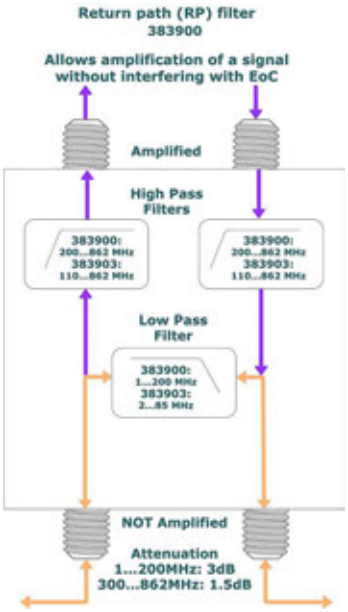
Main features

- 2,4 GHZ Wi-Fi - 802.11b/g/n MIMO
- 5 GHz Wi-Fi - 802.11ac MU-MIMO
- 2x Ethernet port
- PoE input: PoE-in 802.3af / PoE+in 802.3at
- PoE output: PoE-out 802.3af
- VLAN support
- Layer 2 Isolation
- Powersupply requirements:
  - PoE (802.3af) 15.4W when NO PoE powered device on PoE output (Ethernet 2)
  - PoE+ (802.3at) 30W when PoE powered device on PoE output (Ethernet 2)

SPECIFICA	*TX383230*
Characteristics	
TX power EIRP	Europe (ETSI)
Ethernet port	2x RJ45 Gigabit
Ethernet interface	PoE-in 802.3af/at
Impedance	100 Ω
Traffic Management	VLAN: Portbased VLAN (802.1Q)
General	
Power / Consumption	100 ÷ 240 Vac / 10 ÷ 28 W (max with PoE out)
Dimensions	370 x 119 x 185 mm
Temperature range	-10° ÷ +40° C
Humidity - operating	20 ÷ 80 %

TX383900 - Ethernet over Coax RP filter

Return path filter



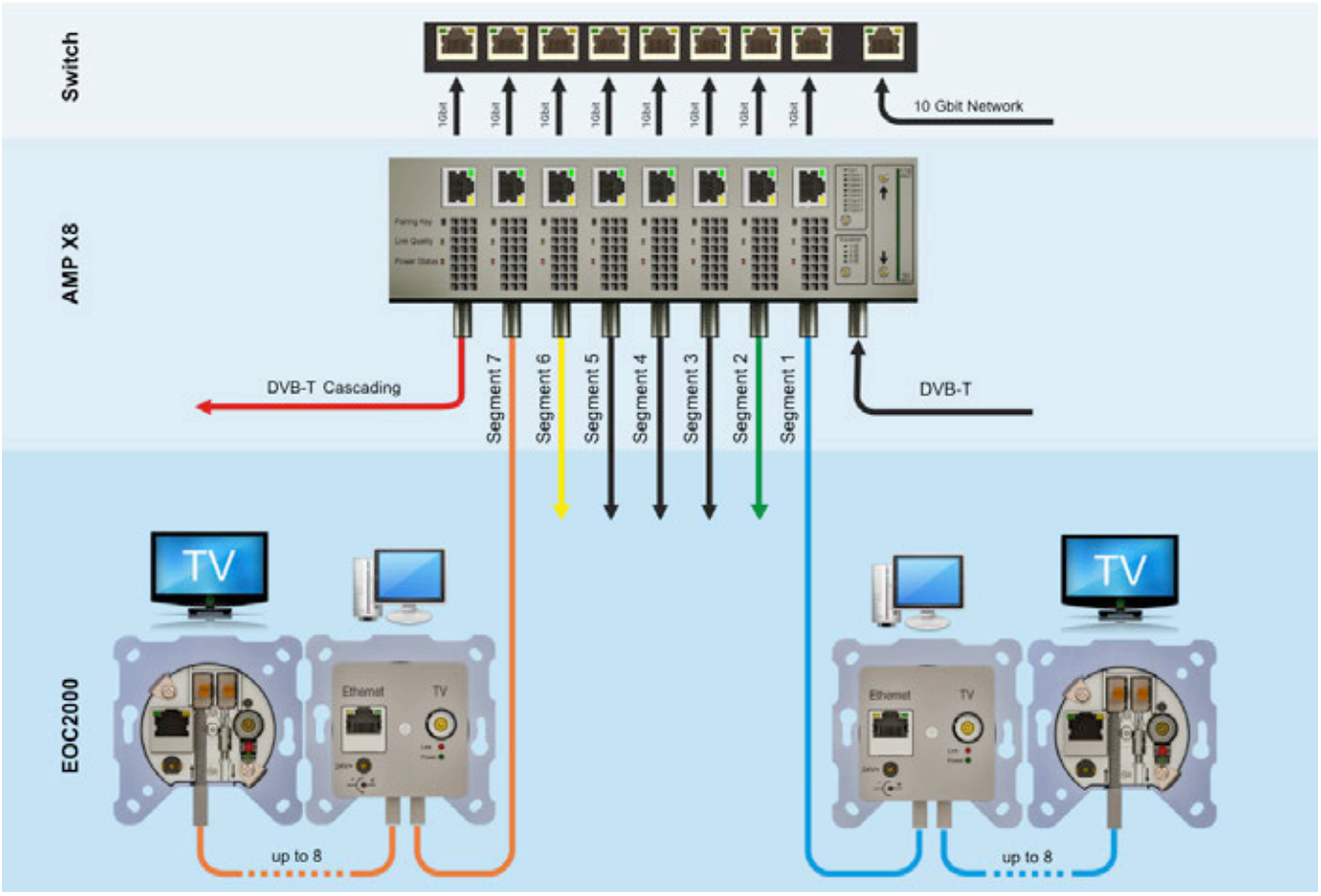
The return path filter is used to bypass amplifiers in a normal coax based TV network on the data frequency of EoC. This allows the data to have a return path and the TV signal to be amplified without interfering with EoC.

Main feature:

- Return path 1...200 MHz – no amplification
- To amplifier 300...862 MHz

SPECIFICA	TX383900
Characteristics	
Isolation TV IN Amp. - TV OUT Amp.	> 49.0 (250 ÷ 862 MHz) dB
Frequency Range G.hn	1 ÷ 200MHz
Frequency Range TV	300 ÷ 862 MHz
Impedance	75 Ω
Loss	
Through Loss TV/EoC IN - TV/EoC OUT	< 3.0 (2 ÷ 200 MHz) dB
Through Loss EoC IN -TV/EoC OUT Amp.	< 1.5 (250 ÷ 862 MHz) dB
Through Loss EoC IN Amp. -TV/EoC OUT	< 1.5 (250 ÷ 862 MHz) dB
Return Loss TV	> 10dB
General	
Power / Consumption	4 ÷ 15 Vdc / 4 W
Weight	0.124Kg
Temperature range	-10° ÷ +40° C
Humidity - operating	20 ÷ 80 %

Ethernet over Coax



Multi gigabit over coaxial cable
The distribution amplifier AMP X8 is a highly integrated solution to provide a Gigabit network to 8 coaxial lines.
Up to 8 G.hn modems deliver either 750 Mbit or 1700 Mbit net per coaxial line depending on the model.
If compatibility with a cable network operator is required, then 750 Mbit are available. Without the compatibility to a cable network operator even up to 1700 Mbit are available.
The AMP X8 takes over all tasks like filtering, amplifying and splitting of TV signals as well as the insertion of G.hn network data.

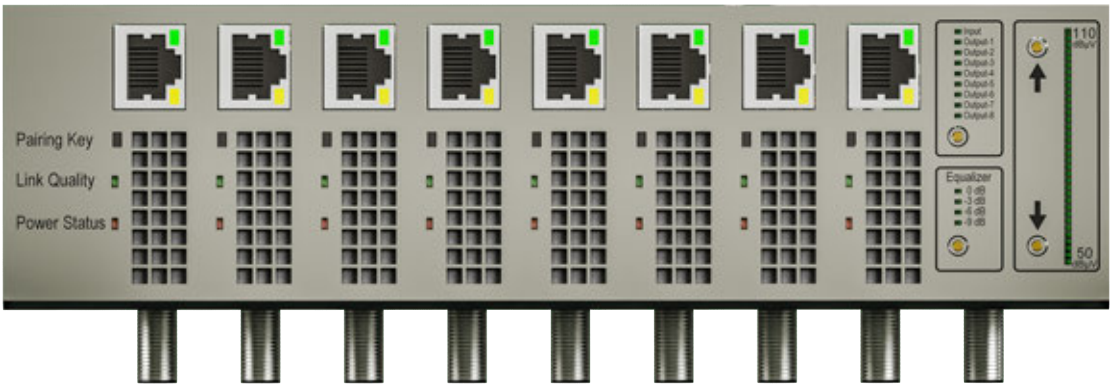
Complex mounting boards / installations are not necessary.

Signal strength and skew can be adjusted digitally.

A built-in power meter simplifies service during and after installation.

Specifications:
- It inserts up to 8 separate Gigabit networks onto the existing coaxial segments.
- The pluggable G.hn modules deliver 750 Mbit or 1700 Mbit net per coaxial segment, depending on the AMP X8 model.
- The network data of each coaxial segment is isolated from that of the other segments.
- The privacy can and must be set in an Ethernet switch.
- The required compatibility of the used frequencies to a cable network operator limits the bandwidth to 750 Mbit.
- Without this limitation (coaxial cable without broadband TV) even up to 1.5 Gbit net per segment is available.
- Signal strength and skew can be adjusted digitally.
- The AMP X8 takes care of all tasks like filtering, amplifying and splitting the TV signals as well as inserting the G.hn network data.
- A built-in power meter simplifies service during and after installation.
- Elaborate mounting boards/installations are not required.
- For large numbers of users, additional AMP X8s can be connected in series.
- With the 24 Vdc / 120 W power supply (Meanwell GST120A24-P1M) 40 of the EOC 1000 or EOC 1700 can be powered via the AMP X8.

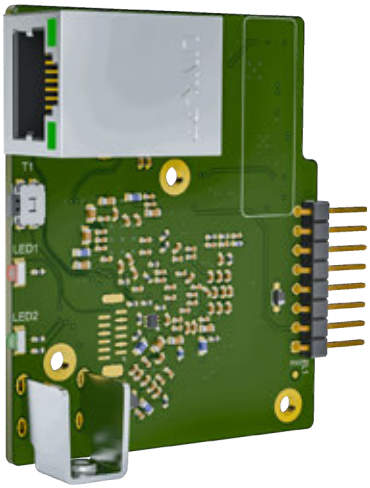
Ethernet over Coax



The **AMP X8** is a highly integrated distribution amplifier that distributes a DVB-C signal and network data to 8 coaxial segments.

Specifications:
- Gain 33 dB (internal 48 dB)
- Bandwidth 1.5 Ghz
- Ripple 1.5 dB
- Integrated amplifier 125 dBµV
- Noise figure 4 dB
- Noiseflor -170 dBm/Hz
- Integrated 8-fold splitter
- 8 outputs with max 108 dBµV
- Return channel lock
- High pass and low pass filter
- Up to 8 G.hn modules
- Internal performance meter 50 dbµV to 110 dbµV
- Up to 64 participants/EOC1700
- Remote power supply 24 Vdc up to 40 EOC 1700
- Digitally adjustable: 8x 31 dB attenuator (0.5 dB steps) - skew correction (0-3-6-9 dB)

Important: setting the output power
The total band power (approx. 90 transponders) is 19.5 dB higher compared to the output power of a single transponder determined with a measuring device!
You must take this into account when adjusting the total band power.



A **G.Hn module** inserts the network data in the lower frequency range of the TV spectrum.
Up to 8 G.hn modules can be plugged into one AMP X8.
The network data of each coaxial segment is isolated from that of the other segments.
Privacy can and must be set in an Ethernet switch.

Specifications:
- Frequency range: 2 - 199 MHz
- Network standard: G.hn
- Hardware encryption: AES 128-bit
- Quality of Service: VLAN/TOS/Packet Classifier
- Data rate gross: 2000 Mbps
- Net data rate: 1700 Mbps

The **EOC 2000** is an in-wall socket which supports the simultaneous transmission of Internet and Cable TV on an existing coax cable network.

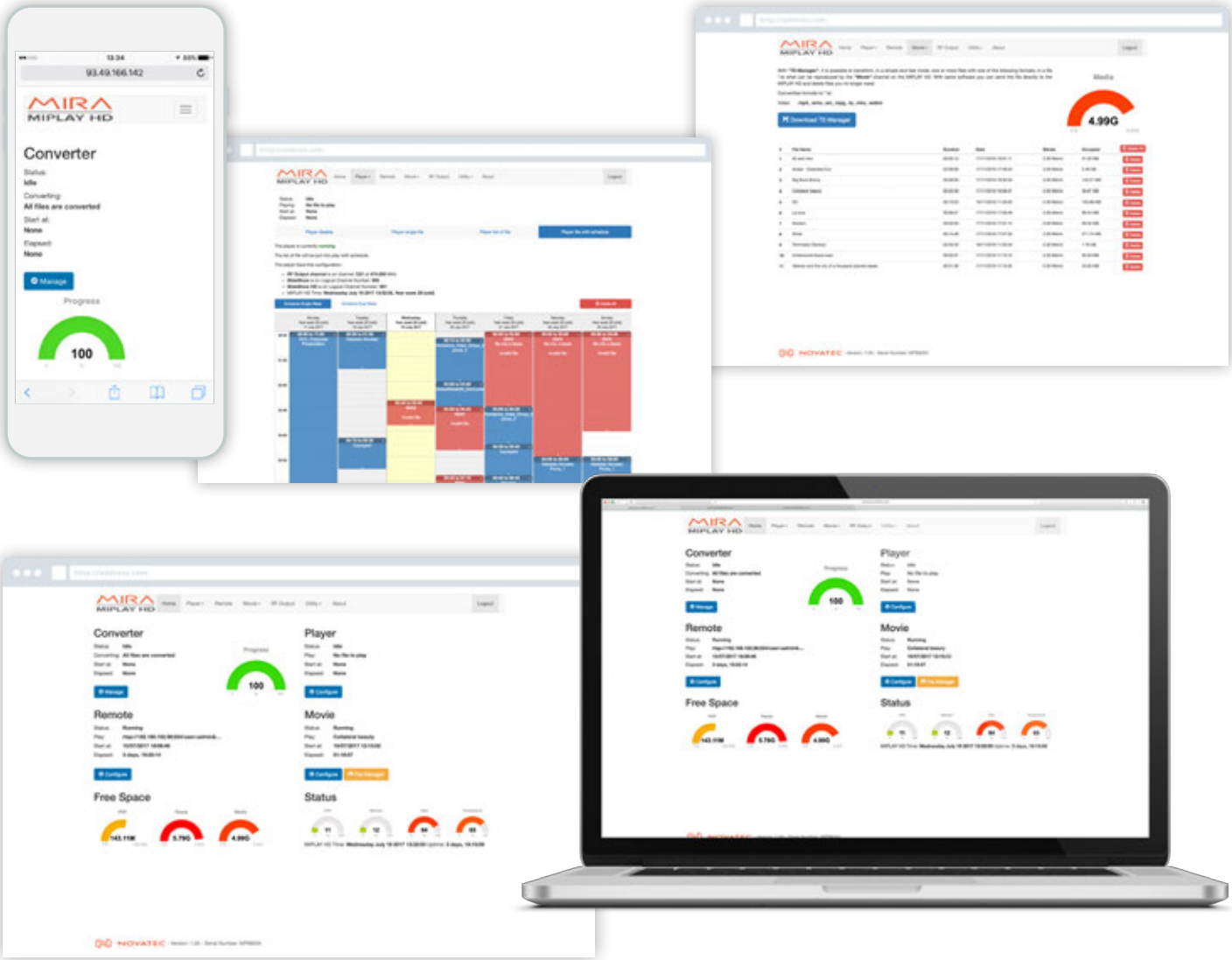
Specifications:
- Gbit LAN interface and a C-throughput in-wall socket
- Can be integrated into single outlets and multiple outlets
- Frequency range 2 – 199 MHz
- Network standard: G.Hn
- Data rate Gross: 2000 Mbps
- Data rate Net: 1700 Mbps
- Attenuation 300 ÷ 860 MHz: -2 dB (16 db coupling)
- Attenuation 300 ÷ 860 MHz: -3 dB (10 db coupling)
- Coupling: 16 dB (other values on request)
- Hardware encryption : AES 128-bit
- Quality of Service: VLAN/TOS/Packet Classifier/Virtually perfect transmission with IPTV.

MIPLAY HD

MYPLAY HD è un server multimediale, potente ed economico, che converte file PDF, file multimediali, indirizzi WEB o flussi RTSP in canali Digitali Terrestri ed è adatto a tutti i televisori.

MIPLAY HD è stato appositamente studiato per condomini, hotel, supermercati, palestre e tutte quelle strutture che spesso hanno bisogno di comunicare diversi contenuti contemporaneamente e in modo rapido ai loro clienti/abitanti.

MYPLAY HD - Dashboard Web facile da usare



MYPLAY HD - Applicazioni

PLAYER

- Fino a 40 file PDF che saranno convertiti in filmati su canali TV
- Tempo di visualizzazione regolabile
- I PDF possono avere un massimo di 15 pagine
- I PDF possono essere gestiti con funzione palinsesto (minuti, ore, giorno, settimana, 2 settimane)
- I files possono essere trasferiti via rete locale o internet
- È possibile usare il nostro server 4ddns.eu per caricare i files e identificare ogni singolo box nella rete
- I PDF sono salvati all'interno di ogni singola unità ottenendo in tal modo un risparmio di banda e di dati

VIDEO

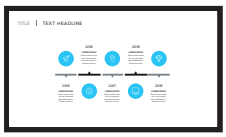
- La sezione video supporta gli indirizzi WEB o RTSP real time streaming protocol
- Si possono visualizzare contenuti WEB o RTSP in risoluzione FULL HD
- L'indirizzo WEB può SOLO essere visualizzato direttamente sul TV
- La stringa RTSP può essere una telecamera IP o l'uscita di un NVR / TVCC
- Le immagini di questa sezione non possono essere registrate in accordo con la legge sulla privacy
- Real Time Streaming Protocol è il formato standard dei contenuti WEB

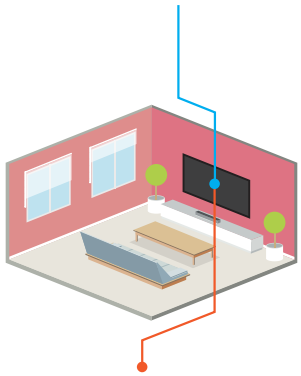
MOVIE

- Myplay gestisce, come formato standard, i file Transport Stream .TS
- Si possono salvare file fino a 6Gb in formato 1080P
- I file .TS salvati possono essere letti in modalità continua e sequenziale
- I file .TS File possono essere caricati direttamente dalla porta USB del MIPLAY HD o via internet da remoto con un indirizzo IP dinamico tramite il nostro server 4ddns.eu
- I file .TS sono trasferibili anche tramite rete locale da qualsiasi PC o tablet o smartphone
- I file possono essere schedulati e gestiti con funzione palinsesto

INFORMAZIONI DI SICUREZZA

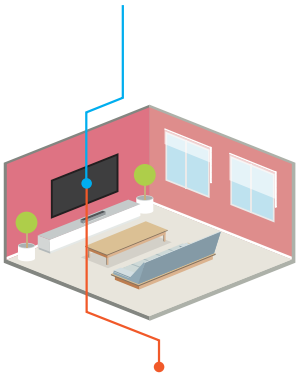
INFORMAZIONI CONDOMINIALI





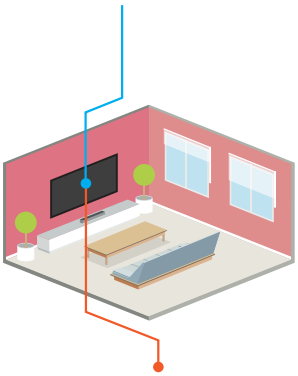
APPARTAMENTO 1 - CANALE 900
Slideshow che presenta i programmi e i lavori in programma per il condominio.

TVCC DAL PARCHEGGIO



APPARTAMENTO 1 - CANALE 915
Immagini dall'impianto TVCC del condominio

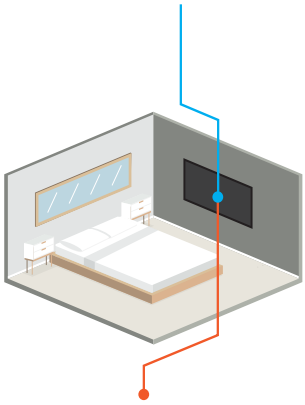
VIDEO TUTORIAL PER UTENTI



APPARTAMENTO 1 - CANALE 920
Video Tutorial

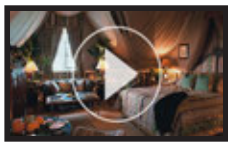
INFORMAZIONI AI CLIENTI

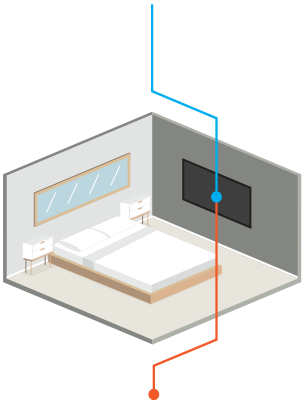
COSA OFFRE LA STRUTTURA



STANZA 120 - CANALE 900
Slideshow che presenta l'hotel e tutti i servizi della struttura a disposizione del cliente

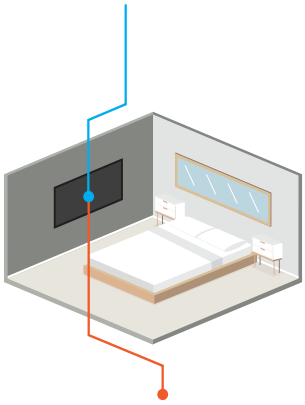
COSA SI TROVA NELLE VICINANZE





STANZA 210 - CANALE 910
Canale video / web: si proiettano video dalla rete o riguardanti anche zone di interesse prossime alla struttura

INTRATTENIMENTO



STANZA 330 - CANALE 915
Si proietta un film FULL HD caricato direttamente sul MIPLAY HD

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