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DELTA
Electronics

CATALOGO
FIBRA OTTICA
COMPONENTI ATTIVI
2024 Q2

Fibra ottica / componenti attivi

2024 Q2

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MOCH2 31-33-xx, MOCH2 35-37-55 - Optical Compact Transmitter



MOCH2 31-33-00



MOCH2 31-33-55



MOCH2 35-37-55

SPECIFICHE	MOCH2 31-33-00	MOCH2 31-33-55	MOCH2 35-37-55
Sat Inputs	2x Satellite (Wideband/Quattro)	2x Satellite (Wideband/Quattro) + 1x DTT	2x Satellite + 1x DTT + 1x Optical from MOCH2 31-33-00
Sat Frequency range	290 - 2340 Mhz (WB)		
Min Sat input level	65 dBμV		
DC LNB	18 Vdc - 400 mA		
Min Terr/CATV Input level	65 dBμV		
Optical Outputs	1x SC/APC		
Optical Power	≥9 dBm per wavelength		
Optical Output wavelengths	1310, 1330 nm	1310, 1330, 1550 nm	1350, 1370, 1550 nm
Automatic Gain Control	15 dB		
Automatic Slope Control	10 dB		
Power Supply	18 to 20 Vdc - ≥ 1,5 A (J2469 not included)		
Power Consumption	Max 30 W		
Environmental Temperature	-20° ÷ +50° C		
Dimensions	221 x 141 x 50 mm		
Weight	0.8 Kg		

MOCH2 31-33-xx / MOCH2 35-37-55

- Integrated amplifier with AGC/ASC/LTE filtering
- Signal Indication via LED
- Operation Mode indication via LED
- Operation Mode Setting
- Bandwidth Selection (WB/Quattro and TER/CATV)
- Availability in 19" Housing

Due to the integrated amplifier with AGC and ASC, the signal of the LNB and a terrestrial VHF antenna can be inserted directly without any preprocessing. The device accepts input signal levels from 70 to 85 dBμV.

Optical Triple Transmitter 1350, 1370, 1550 nm

Optimized for Wideband Satellite signal input (optional Quattro signal input)

3rd input optimized for terrestrial frequencies up to 700 MHz (optional CATV input frequency range up to 1.2 GHz).

This device is designed to support the transmission of satellite signals of a 2nd satellite via one single fiber.

It **only** can be used in combination with the MOCH2 31-33-00.

The device has an optical input that accepts wavelengths below 1340 nm and combines them with the internally produced wavelengths.



PRODOTTO NECESSARIO!
J2469

Alimentatore switching 20 Vdc - 3,2 A
Connettore F



PRODOTTO CONSIGLIATO!
MIRA MLWB21



PRODOTTO CONSIGLIATO!
MIRA MLQWB2

MCOR25 - Optical Receiver



MOCOR25

MCOR25

- Optimized for Wideband Satellite IF signals (290 ÷ 2350 MHz)
- Suitable for CATV signals (5 ÷ 862 MHz) and/or Quattro Satellite IF signals (950 ÷ 2150 MHz)
- Converts single fibre with two wavelengths (1310, 1330 nm)
- Perfect match for the MSW Multiswitches series of DELTA
- Perfect receiver for the Optical Compact Transmitter of MOCH25

SPECIFICHE	MOCOR25
Optical Inputs	1
RF Outputs	2
Optical Wavelength	1310, 1330 nm
Terrestrial Output Frequency Range	-
Satellite Output Frequency Range	5 ÷ 2400 MHz
Optical Input Level	-15 ÷ +5 dBm
RF Output Level per Tr. (AGC)	80 dBμV
Signal Presence Indicator	Green LED per wavelength
Return Loss	10 dB
Optical Connector Type	SC / APC
RF Connector	75 Ω F-type (female)
Power Consumption	2 W
Power Supply	12 ÷ 20 V (via V or H port)
Power Indicator	Green LED
Operating Temperature Range	-20° ÷ +55° C
Dimensions	36 x 45 x 125 mm
Weight	0.11 Kg

MCOR25, 35, 55AGC - Optical Receiver with AGC



MOCOR25AGC



MOCOR35AGC



MOCOR55AGC

SPECIFICHE	MOCOR25AGC	MOCOR35AGC	MOCOR55AGC
Optical Inputs	1	1	1
RF Outputs	2	3	5
Optical Wavelength	1310, 1330 nm	1310, 1330, 1350 nm	1310, 1330, 1350, 1370, 1550 nm
Terrestrial Output Frequency Range	-		
Satellite Output Frequency Range	5 ÷ 2400 MHz		
Optical Input Level	-15 ÷ +4 dBm		
RF Output Level per Tr. (AGC)	80 dBμV		
Signal Presence Indicator	Green LED per wavelength		
Return Loss	-10 dB		
Optical Connector Type	SC / APC		
RF Connector	75 Ω F-type (female)		
Power Consumption	2 W	3 W	4 W
Power Supply	12 ÷ 20 V (via V or H port)		
Power Indicator	Green LED		
Operating Temperature Range	-20° ÷ +55°C		
Dimensions	40 x 125 x 50 mm	60 x 125 x 50 mm	100 x 125 x 50 mm
Weight	0.11 Kg	0.165 Kg	0.275 Kg

MOCOR25AGC, MOCOR35AGC, MOCOR55AGC

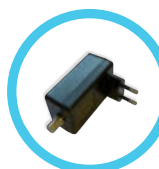
- Optical multiple Receiver with automatic gain control (AGC)
- LED-indication for signal receive
- Compact design
- DC Supply on all SAT outputs
- Wide range of optical input

MOTD3216 - Optical Receiver



MOTD3216

- One device covers multiple applications:
 - Optic-Legacy Converter
 - dSCR-Converter
- Excellent optical sensitivity
- Automatic Legacy / dSCR recognition.
- Supports Unicable 1 and 2
- Powered via RF outputs or separate power supply
- LED indication of optical signal & power supply
- 16 User bands per output in dSCR mode
- Compact design



PRODOTTO CORRELATO:
J2499L

SPECIFICHE	MOTD3216
Optical Inputs	1x connector SC/APC
Optical wavelength	1310, 1330, 1550 nm
Terrestrial output frequency range	40 ÷ 790 MHz (1 connector F-Type)
Terrestrial output level (AGC)	70 dBμV
Satellite output frequency range	950 ÷ 2150 MHz (4 connector F-Type)
Satellite output level (AGC)	80 dBμV
Signal presence indicator	Green LED per wavelength
dSCR outputs	2
Supported Output Modes	SCR + Legacy + DVB-T/DAB/FM
SCR Channel Bandwidth	46 Mhz
SCR User Bands	16 per output EN 50494: 1210, 1420, 1680, 2040; EN 50607: 985, 1050, 1115, 1275, 1340, 1485, 1550, 1615, 1745, 1810, 1875, 1940
SCR Standards (automatic Recognition)	BSkyB SCR CENELEC EN 50494, CENELEC EN 50607, Universal LNB Tone & Voltage
Legacy Output Power per Txp	Up to -15 dBm, no AGC
DiSEqC Commands	DiSEqC conform
DC Powering	Can be powered through the DC connector or through the SAT-RF outputs (all F type)
Voltage	10 to 20 Vdc from connected receivers or multiswitches 11 to 20 Vdc from power supply
Max. Power Consumption	5 W
DC via RF outputs	Yes (not on terrestrial RF output)
Shortage & Power On Diagnostics	Yes
Operating Temperature Range	-20° ÷ +50° C (indoor use only)
Dimensions - Weight	164 x 142 x 50 mm - 0.35 Kg

MOQC5416, MOTD5416 - dSCR/legacy Quad/Quattro FTU



MOQC5416

- One device covers multiple applications:
 - Optic-Legacy Converter
 - Optic dSCR-Converter
 - Optic Quattro-Converter
- Excellent optical sensitivity
- Automatic Legacy / dSCR recognition.
- Supports Unicable 1 and 2
- Powered via RF outputs or separate power supply
- LED indication of optical signal & power supply
- 16 User bands per output in dSCR mode
- Compact design



PRODOTTO CORRELATO:
J2469

SPECIFICHE	MOQC5416	MOTD5416
Optical Inputs	1 x connector SC/APC	
Optical wavelength	1310, 1330, 1550 nm	1310, 1330, 1350, 1370, 1550 nm
Terrestrial output frequency range	40 - 790 MHz (1 connector F-Type)	
Terrestrial output level (AGC)	Quad Mode: 65 dBμV / Quattro Mode 75 dBμV	
Satellite output frequency range	950 - 2150 MHz (4 connector F-Type)	
Satellite output level (AGC)	Quad Mode: 80 dBμV / Quattro Mode 80 dBμV	
Signal presence indicator	Green LED per wavelength	
dSCR outputs	4 (in Quad Mode)	
Supported Output Modes	SCR + Legacy + DVB-T/DAB/FM	SCR + Legacy + CATV
SCR Channel Bandwidth	46 Mhz	
SCR User Bands	16 per output EN 50494: 1210, 1420, 1680, 2040; EN 50607: 985, 1050, 1115, 1275, 1340, 1485, 1550, 1615, 1745, 1810, 1875, 1940	
SCR Standards (automatic Recognition)	BSkyB SCR CENELEC EN 50494, CENELEC EN 50607, Universal LNB Tone & Voltage	
Legacy Output Power per Txp	Up to -15 dBm, no AGC	-8 dB (Typ -12 dB)
DiSEqC Commands	DiSEqC conform	
DC Powering	Can be powered through the DC connector or through the SAT-RF outputs (all F type)	
Voltage	10 to 20 Vdc from connected receivers or multiswitches 11 to 20 Vdc from power supply	
DC via RF outputs	Yes (not on terrestrial RF output)	
Shortage & Power On Diagnostics	Yes	
Max. Power Consumption	8 W	16 W
Operating Temperature Range	-20° ÷ +50° C	-10° ÷ +55° C
Dimensions - Weight	164 x 142 x 50 mm - 0.5 Kg	166 x 170 x 50 mm - 0.5 Kg

MOT83W, MOT87W, MOT103W, MOT105W



PRODOTTO CONSIGLIATO!
J9780 - Digital DSCR Solutions

SPECIFICHE	MOT87W	MOT105W	MOT83W	MOT103W
Optical Characteristics				
Laser Type	DFB			
Optical Wavelength	1550 nm		1310 nm	
Output Optical Power	8,5 dBm	10,0 dBm	8,5 dBm	11,0 dBm
Optical Return Loss	50 dB			
Optical Connector Type	SC/APC			
CATV RF Characteristics				
Operating Bandwidth	45 ÷ 862 MHz			
Input Range	75 ÷ 85 dBµV			
Flatness	± 1 dB			
Input Return Loss	14 dB			
C/N	≥ 51 dB	42CH CENELEC 80dBµV AGC OMI=3.8%		
C/CTB	≥ 63 dB	42CH CENELEC 80dBµV AGC OMI=3.8%		
C/CSO	≥ 58 dB	42CH CENELEC 80dBµV AGC OMI=3.8%		
Input Impedance	75 Ω			
RF Connector	F type (Male/Female)			
SAT-IF Characteristics				
Working Bandwidth	950 ÷ 2600 MHz			
Input Range	68 ÷ 83 dBµV			
Flatness	±3 dB			
Input Return Loss	10 dB			
C/IM3	≥ 55			
General Characteristics				
Power Supply (AC)	IN: 110 ÷ 265Vac, OUT: 12Vdc/18 Vdc - 10W			
Working Temperature	0° ÷ +50° C			
Dimension	200 x 102 x 35 mm			

MOR300W, MOR355, MOR500W

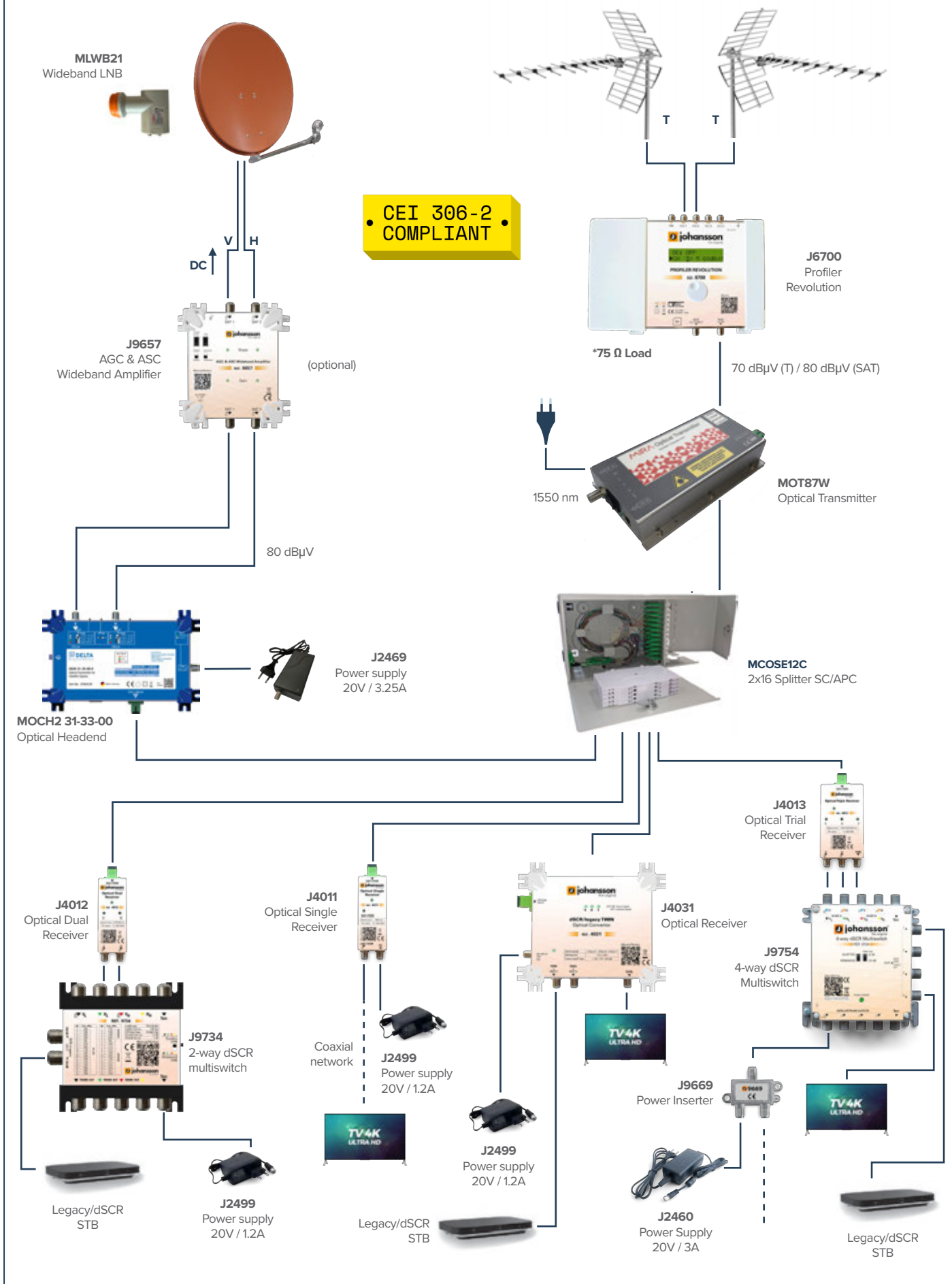


MOR300W, MOR500W:

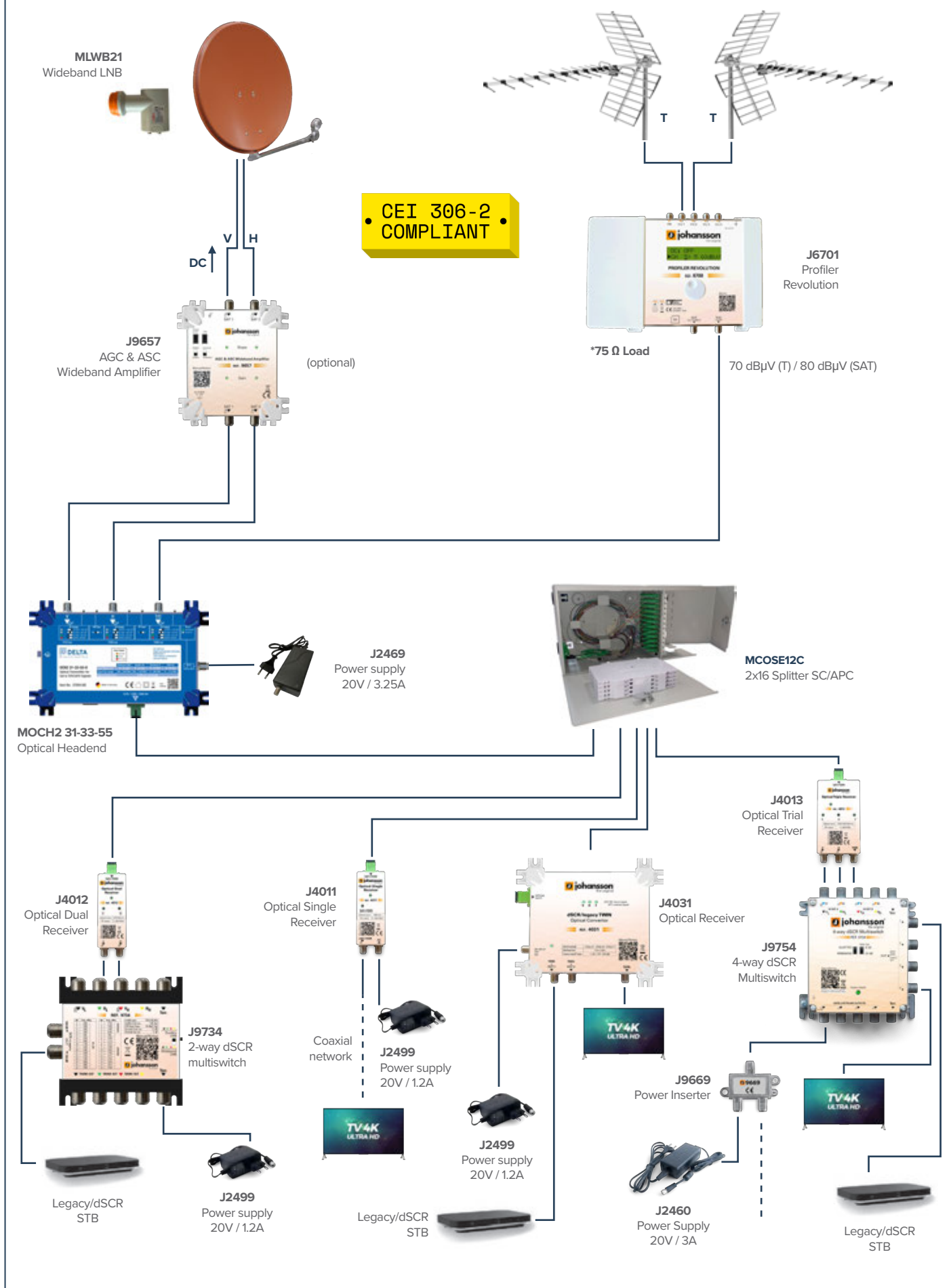
- High linearity, suitable for Analog TV&SAT-IF application
- MOR300W-MOR355 Bandwidth: 45 ÷ 1000 MHz
- MOR500W Bandwidth: 45 ÷ 2600 MHz
- Simultaneously receive CATV and SAT-IF signal, can be compatible with FTTxPON technology
- Analog TV, Digital TV and Satellite TV have excellent performance:
 - Analog TV: (84CH PAL-D, OMI= 3.8%, Pin= -1 dBm)
 - Digital TV: (Original signal MER =38.6 dB, BER < 1.0E-9) Pin= -14 dBm, MER ≥33 dB (MER degrade 5 dB), Pin= -19 dBm, BER <1.0E-9;
 - Satellite TV: (Original signal quality= 64%) Pin= 20 dBm, signal quality >38%.

SPECIFICHE	MOR300W	MOR500W	MOR355
Optical Characteristics			
Operating Wavelength	1260 ÷ 1620 nm		1530 ÷ 1570 nm
Responsivity	0.85 A/W		
Receiving optical power range	Analog TV: - 7 ÷ +2 Digital TV: - 14 ÷ +2 Satellite TV: - 20 ÷ +2		
Optical Return Loss	50 dB		
Optical Connector Type	SC/APC		
RF Characteristics			
Operating Bandwidth	45 ÷ 1000 MHz	45 ÷ 2600 MHz	45 ÷ 1000 MHz
Output Level	90 dBµV@Pin=0 dBm		
Flatness	-1.0 ÷ +1.0 dB (45 ÷ 862 MHz) -2.5 ÷ +2.5 dB (950 ÷ 2600 MHz)		
Output Return Loss	14 dB min. (45 ÷ 862 MHz) 12 dB min. (950 ÷ 2600 MHz)		
C/N	51 dB min. @Pin= -1 dBm, Pout>88 dBµV, 84CH PAL-D, OMI=3.8%		
CTB	66 dB min. 66 @Pin= -1 dBm, Pout>88 dBµV, 84CH PAL-D, OMI=3.8%		
CSO	62 dB min. @Pin= -1 dBm, Pout>88d BµV, 84CH PAL-D, OMI=3.8%		
HUM	-60 dB min.		
Output Impedance	75 Ω		
RF connector	F type (Male/female selectable)		
General Characteristics			
Operating Voltage	12 Vdc		
Consumption	≤ 3 W		
Operating Temperature	-20° ÷ +60° C		
Dimension	105 x 67 x 24 mm		

Fiber Optical Distribution SAT + DTT



Fiber Optical SAT



MOTX90, MOTX120

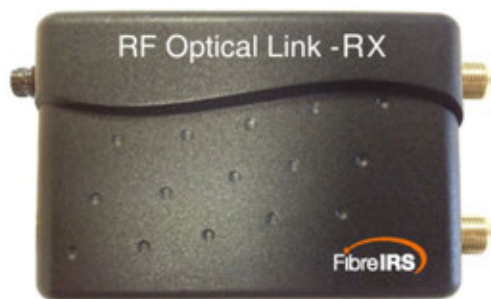


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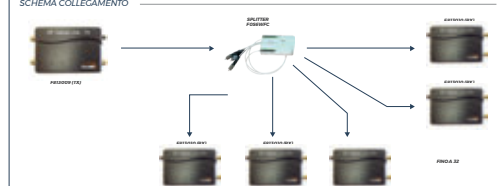
Trasmettitore TV RF ottico RACK 19": 7,8 dBm / 9,0 dBm / 12 dBm,
47-862 Mhz, connettore uscita SC/APC (fibra Single Mode)

SPECIFICHE	MOTX90	MOTX120
Potenza ottica	10 mW (10 dBm)	16 mW (12 dBm)
Frequenza	47 ÷ 870 MHz	
CNR	≥ 52 dB (classe A)	
CTB	≥ 67 dB (classe A)	
CSO	≥ 62 dB (classe A)	
Specifiche ottiche		
Tipo di laser	DFB (con isolatori ottici)	
Lunghezza d'onda	1310 nm ±20	
Tipo modulazione	Modulazione intensità luce diretta	
Connettore fibra	SC/APC	
Livello segnale ingresso RF	80 ±3 dB	
Piattezza	±0.75 dB	
Impedenza ingresso RF	75 Ω	
Perdita di ritorno ingresso RF	≤ -16 dB (47 ÷ 550 MHz)	
	≤ -14 dB (551 ÷ 870 MHz)	
Generiche		
MTBF	≥ 40000 h	
Temperatura operativa laser	+5° ÷ +40° C	
Alimentazione (linea)	220 Vac (86 ÷ 264 Vac)	
Consumo	50 W	
Dimensioni	480 x 350 x 44 mm	

F813009 (TX), F813010 (RX)



F813009 (TX), F813010 (RX)
SCHEMA COLLEGAMENTO



SPECIFICHE	F813009 (TX)	F813010 (RX)
Optical Characteristics		
Operating Wavelength	1310 nm	1100 ÷ 1600 nm
Return loss	20 dB min	
Receiving optical power range	Analog TV: -7 ÷ +2 Digital TV: -14 ÷ +2 Satellite TV: -20 ÷ +2	-
Optical Power	7 dBm	-
SAT, DTT, DAB and FM (Electrical)		
RF Frequency Range		
Input Power DTT	60 ÷ 92 dBµV	-
Input Power SAT	60 ÷ 85 dBµV	-
Gain Variation Across Band	4 dB max	
DC Specification		
Input Voltage Range	12 ÷ 20 Vdc	
LNB Supply Voltage	12 ÷ 20 Vdc	
Current Consumption	< 200 mA	< 140 mA
Connector		
Output	Fibre Optic FC/PC	
DTT/DAB/FM	F	-
Power Supply in/out	F	-
RF Out / Ter Out	F	
Power supply	-	2.1 mm jack
Enviromental Specification		
Operating Temperature	-20° ÷ +55° C	
Storage Temperature	-20° ÷ +65° C	
Others		
Laser Classification	Classs 1M	
Dimensions	85 x 55 x 25 mm	

FD000452, FD000411 - Satellite and terrestrial optical converter



FD000452:

Introducing the new OTx optical headend from Global Invacom.

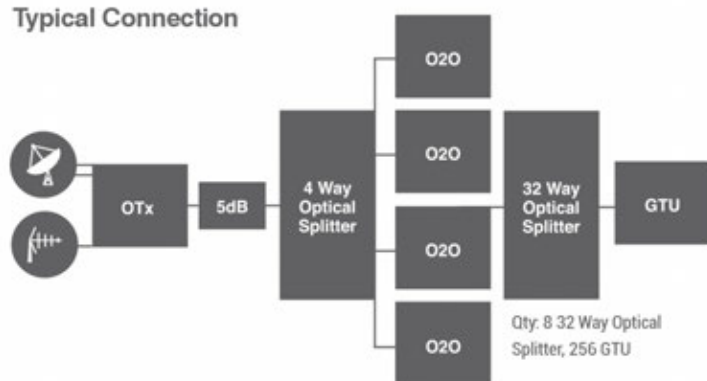
Fully compatible with all the current FibreIRS equipment and designed for future compatibility, replaces both the ODU32 and fibre LNB.

Fully compatible with all existing GTU's and SwitchBlade units. The output frequency stacking has not changed.

Main features:

- 1310 nm option either as a kit with a wideband LNB included or as a standalone unit
- Wideband LNB input. Unlike the previous ODU32 that required a specific wholeband LNB with frequencies above 5GHz, the OTx unit uses standard H & V wideband inputs
- The wideband LNB supplied in the kit uses a local oscillator set to 10.41 GHz
- Single optical output with a 7 dBm 1/32 split ratio. ODU32 units are more costly but would offer two 1/32 split optical outputs. If more than 32 splits are required, additional equipment will be needed
- IP65 rated and can therefore be installed outside. Intended to be fitted behind the dish itself. Ensure that it is mounted vertically
- 5G / 700 MHz filtered input accepting frequencies $88 \div 694$ MHz. Additional channel processing with channel conversion is recommended with transmitters that still offer COM 7 at channel 55
- Vertical leg powering of the wideband LNB only. For horizontal signal testing, it is recommended that power is fed to the LNB via the vertical leg connection of the powered OTx unit.

Typical Connection



FD000411:

The O2O (Optical to Optical) convertor from Global Invacom. Fully compatible with all the current FibreIRS headend equipment and designed for future compatibility. Replaces the functionality of the O2E and ODU32 in one compact unit.

Specifications:

- FibreIRS FC/PC optical input (1100 ÷ 1650 nm)
- Fully compatible with GI optical LNB, ODU32 & ODU32 (1550) and the new wideband LNB and OTX
- 2 x FC/PC optical outputs
- Space saving design
- Small form factor



The **O2O** has been designed to be used in conjunction with either the OTx, ODU32 or the fibre optic LNB to increase the number of subscribers that can be connected to a single dish.

FD000188, FD000187



• CEI 306-2
COMPLIANT •



• CEI 306-2
COMPLIANT •

FD000188

Ricevitore QUATTRO HVHV: output + DTT, output virtuale Ottico-Coax, alimentatore **non incluso** Serie Compact

FD000187

Ricevitore QUAD: output + DTT, output virtuale Ottico-Coax, alimentatore **non incluso** Serie Compact.

SPECIFICHE		FD000188 (QUATTRO)	FD000187 (QUAD)
DTT, DAB & FM (Elettrica)			
Frequenza RF	DTT	470 ÷ 790 MHz	
	DAB	174 ÷ 240 MHz	
	FM	88 ÷ 108 MHz	
Impedenza nominale		75 Ω	
Perdita di ritorno		10 dB (min.)	
Uscita nominale DTT Quad / Quattro		71 dBμV	78 dBμV
Variazione guadagno sulla banda		5 dB (max)	5 dB
Rejection 950-2150MHz		35 dB	
FM,DAB,DTT & Satellite (Ottica)			
Lunghezza d'onda Ottica		da 1100 a 1650 nm	
Ingresso alimentazione Ottica		-12 dBm (min) / 3 dBm (max)	
Segnali controllo			
Selezione voltaggio verticale		10.5 V (min) / 14.5 V (max)	–
Selezione voltaggio orizzontale		15.5 V (min) / 19 V (max)	–
Banda Low / High		0 / 22 Khz	–
Specifiche Elettriche			
Tensione d'ingresso		10.5 ÷ 21 V	
Consumo corrente (Quad)	@10.5 V con solo RX1 e Rx2 alimentati	235 mA (max)	–
	@10.5 V con solo RX3 e Rx4 alimentati	235 mA (max)	–
Consumo corrente (Quad)	Totale @ 10.5 V (aliment. diretta)	470 mA (max)	–
Consumo corrente (Quatro)	@ 10.5 V	–	490 mA (max)
Specifiche generiche			
Temperature d'esercizio		-15° ÷ +50° C	
Misure		128.7 x 116.5 x 27 mm	120.8 x 80.1 x 26.3 mm
Peso		325 g	175 g

LA20D12PB1, FD000342



Alimentatore 20volt per moduli **FD000187/188, F101938, F102029, F102030, FD000199.**

FD000199 - SkyQ dCSS Adapter



The Sky Q dSCR GTU converts optical power to Radio Frequency (RF) power (4 satellite bands and FM, DAB, DTT).

Terrestrial signals are overlaid onto both output ports. All units have built in Automatic Gain Control (AGC) which allows a wide dynamic range of optical levels without affecting output power and quality. One LED indicator allows the user to monitor the status of the unit. It is able to work in legacy, analogue SCR (aSCR) and digital SCR (dSCR) modes.

FD000199:

Optical to RF convertor (Satellite and FM,DAB,DTT)

- The GTU will be connected to a suitable Global Invacom FibreIRS Passive Optical Network (PON), providing minimum optical signal levels of -12.2 dBm at the connection point of the GTU.
- The GT U will be installed in a dry indoor environment.
- The installation will be carried out by a competent person.
- All ferrule end faces of the FC/PC optical connectors are cleaned prior to making a connection using a suitable fibre optic cleaning kit.
- The keyway on the FC/PC connector is aligned before tightening. Ensuring not to overtighten the connection.
- The installer has followed the installation guide for the ODU32 or optical LNB.

Cable and Connections:

Output satellite 2 x dCSS and legacy

Output 2 only supports terrestrial signals (DVB-T/T2, FM and DAB.)

Power

This unit draws power from the STB (Set Top Box) via output 1. The STB must be capable of delivering > 500 mA.

UB N°	UB CENTER FREQUENCY (MHZ)	EN50494	EN50607	USAGE
1	1210	Y	N	Legacy STB and PVR SCR compatible
2	1420	Y	N	
3	1680	Y	N	
4	2040	Y	N	
5	985	N	Y	
6	1050	N	Y	
7	1115	N	Y	
8	1275	N	Y	
9	1340	N	Y	
10	1485	N	Y	
11	1550	N	Y	
12	1615	N	Y	
13	1745	N	Y	
14	1810	N	Y	
15	1875	N	Y	
16	1940	N	Y	

User band frequency plan.

Fibra ottica / componenti attivi

2024 Q2

INDICE

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Fibra ottica HDMI / USB

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Fibra ottica TVCC

LOHD59



**4K
UHD**

4K@60 Hz HDMI 2.0 Fiber Optic Extender

LOHD59

- Uncompressed transmits HDMI video signals up to 1.5 Km over 2 singlemode fiber cable
- Highest resolution is up to 3840 x 2160@60 Hz or 4096 x 2160@60 Hz; YUV 4:4:4
- Support EDID learning function, improve compatibility, match signal sources and display devices
- TMDs signal Lossless transmission
- Compliance with HDMI 2.0 and HDCP 1.4/2.2 standard
- Built-in automatic adjustment system, make the image smooth, clear and stable
- Built-in ESD protection system
- Wall-mounted type more convenient
- Simple to install, plug and play

HDR

4K
UHD

PERFORMANCE	
Protocol	HDMI 2.0, HDCP 1.4 / 2.2
Data Rate/ Pixel Clock	18 Gbps / 600 Mhz
Resolution	3840x2160@60/30 Hz; 1920x1200@60 Hz; 1920x1080@60/50 Hz /30/25/24 Hz ; 1080I@60/50 Hz, 1280x720@60/50 Hz
Audio	7.1 channel LPCM, 192 Khz, 24-bit
CONNECTIONS	
HDMI Input/Output	1 HDMI A Female
Fiber Quantity	2x LC simplex
TRANSMISSION DISTANCE	
Fiber Type / Maximum Distance	50/125 μ m OM3-300 MMF: $\leq$ 300 m, 9/125 μ m G.625D SMF: $\leq$ 1500 m
EDDI / HDCP	EDID Auto-Learning, EDID Manage, Support HDCP 1.4 / HDCP 2.2
MECHANISM	
Material	Metal Housing
Dimensions (L*W*H)	108 x 90 x 26 mm
Weight	Approximately 2x 250 g (Source receiver)
STORAGE	
Working Temp	0° $\div$ +50° C
Storage Temp	-20° $\div$ +70° C
Storage Humidity	5 to 95% (Non - Condensing)
POWER SUPPLY	
Power Adapter	Input: 100 $\div$ 240 Vac / 50 - 60 Hz / 0.2 A Output : 5 Vdc - 3 A
Power Dissipation	600 $\div$ 900 mA
WARRANTY	
Limited Warranty	1 year warranty, Lifetime Maintenance.

PRODOTTI CORRELATI



FALCPSD

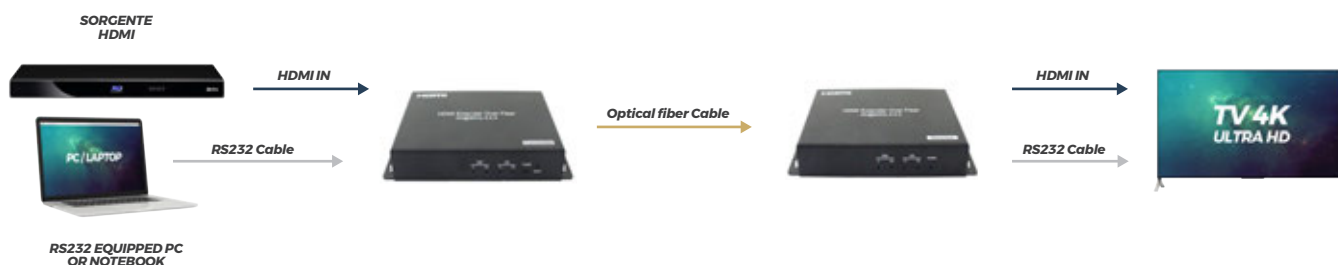


FPLCLC2S3HD



LOHD59

SCHEMA COLLEGAMENTO



LOHD474KU



TVCC

PC

4K
UHD

LOHD474KU

- Trasmette il segnale HDMI fino a 10 Km su cavo in fibra ottica SM
- Supporta risoluzioni fino a 3860 x 2160@60 Hz
- Compatibile con HDMI 1.4
- Sistema protezione HDCP 2.2
- Supporta **USB** per utilizzo di mouse e tastiera
- Semplice da installare, plug-and-play, nessun software aggiuntivo



SPECIFICA	LOHD474KU
Video	
Standard	HDMI 1.4
Risoluzione	3840 x 2160@60 Hz
Connettore	HDMI femmina tipo A
Impedenza	100 Ω
Fibra ottica	
Interfaccia	SFP con connettore LC
Tipo fibra	Single Mode
Lunghezza d'onda	1310 nm
Banda	10 Gbps
Tastiera, mouse, video	
Connessioni	PC: connettore USB tipo B Mouse/Tastiera: connettore USB tipo A
Distanza trasmissione	Fibra SM standard fino a 10Km max
Varie	
Alimentatore	5 Vdc - 1 A, dissipazione 5W max
Temperatura operativa	-10° ÷ +55° C
Dimensioni	163 x 86 x 24 mm

PRODOTTI CORRELATI



FALCPSD



FPLCLC2S3HD

LOHD474KU

SCHEMA COLLEGAMENTO



LOHD27



LOHD27

- Aluminum shell, small volume, lightweight design, more beautiful, strong anti-interference ability; wall-mounted type more convenient
- Using single Mode Fiber to transmit 20 Km
- Video resolution up to 1920 x 1080@60 Hz
- The sender supports HDMI local loop output
- Support infrared (38 KHz) signal return control
- HDMI 1.3 and HDCP 1.2 standards
- High compatibility, automatic matching of signal sources and display devices
- Built-in automatic adjustment system for smooth, clear and stable image
- Built-in ESD electrostatic protection circuit, easy to install, plug and play
- Real-time Video / Audio Transmission from HDMI to Fiber based on IP

SPECIFICA	LOHD27
Video	
Standards	HDMI 1.3, HDCP 1.2
Maximum pixel clock	165 MHz
Maximum data rate	6.75 Gbps
Risoluzione	Up to 1920 x 1080P@60 Hz
Connettore	Femmina HDMI type A
Impedenza	100 Ω
Infrarosso	
Interfaccia	3.5 mm earphone seat
Tipo di segnale	Digitale
Trasmissione	Unidirezionale
Carrier	38 KHz
Fibra Ottica	
Interfaccia	1x HDMI / 1x conn. FC
Tipo fibra	Single Mode
Lunghezza d'onda	1310 nm, 1510 nm
Banda	6.25 Gbps
Distanza trasmissione	20 Km
Varie	
Alimentazione	5 Vdc - 2 A
Potenza dissipata	Max 5 W
Temperatura d'esercizio	-5° ÷ +70° C
Umidità	5 ÷ +90%
Dimensioni	113 x 80 x 28 mm

PRODOTTI CORRELATI



FA-FCP-SS



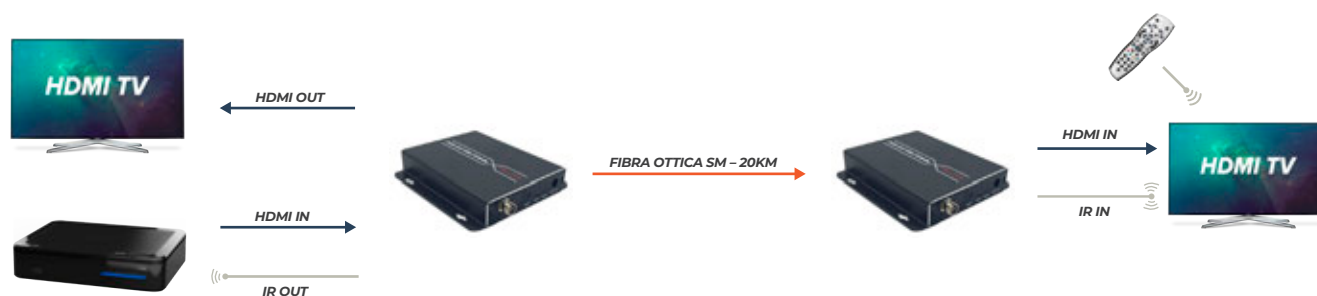
FOFAL****



COMPATIBILE!

LOHD27

SCHEMA COLLEGAMENTO



LOHD47



- LOHD47**
- Aluminum shell, small volume, lightweight design, more beautiful, strong anti-interference ability; wall-mounted type more convenient
 - Using single Mode Fiber to transmit 20 Km
 - Video resolution up to 1920 x 1080@60 Hz
 - The sender supports HDMI local loop output
 - Support **USB** with keyboard and mouse control
 - Support infrared (38 KHz) signal return control
 - HDMI 1.3 and HDCP 1.2 standards
 - High compatibility, automatic matching of signal sources and display devices
 - Built-in automatic adjustment system for smooth, clear and stable image
 - Built-in ESD electrostatic protection circuit, easy to install, plug and play
 - Real-time Video / Audio Transmission from HDMI to Fiber based on IP

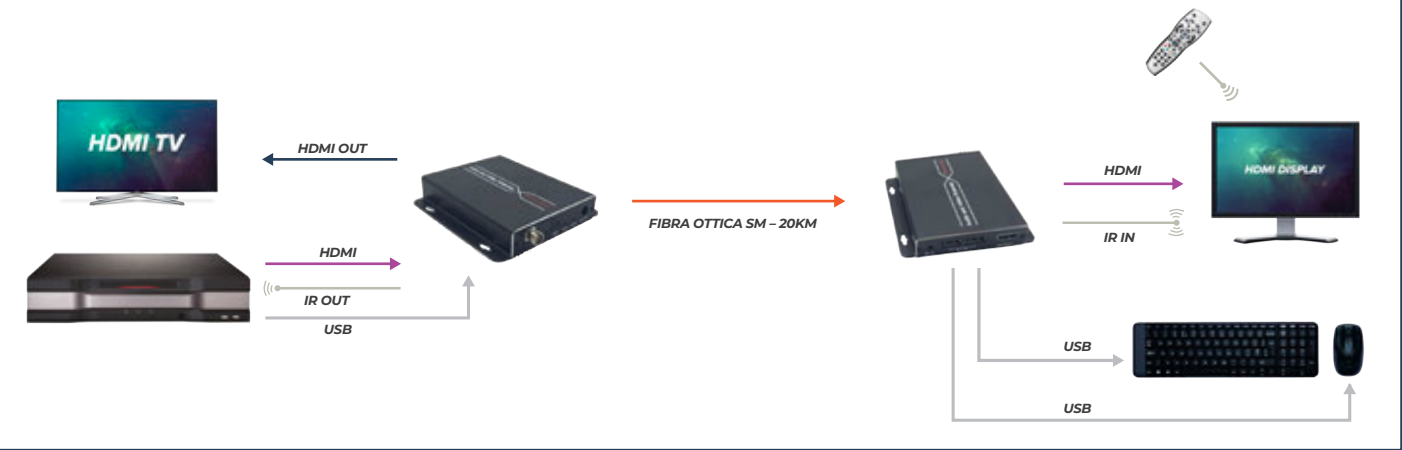


SPECIFICHE	LOHD47
Video	
Standards	HDMI 1.3, HDCP 1.2
Pixel clock (max)	165 MHz
Maximum Data Rate	6.75 Gbps
Resolution Range	Max: 1920 x 1080@60 Hz
Connector	Female HDMI Type A
Impedance	100 Ω
K/M	
Connector	USB-A
Signal	USB HID
Infrared	
Interface	3.5 mm Earphone Seat
Signal Type	Digital
Transmission Direction	Unidirectional
Carrier Frequency	38 KHz
Optical Fiber	
Interface	FC connector
Fiber Type	Single Mode
Wavelength	TX 1310 nm - RX 1550 nm
Interface Bandwidth	155 Mbps
Transmission Distance	Standard: 20 Km
Other	
Power Supply	5 Vdc - 2 A
Power Dissipation	Max: 5 W
Temperature	Operating: -5° ÷ +70° C
Humidity	Operating: 5 ÷ +90%
Dimension	100 x 97.5 x 18.6 mm

PRODOTTI CORRELATI



LOHD47
SCHEMA COLLEGAMENTO



LO59xVTR1DFSW, LO9xVTR1DFSW



LO591VTR1DFSW

5 MP

2 MP

LO591VTR1DFSW: 5MP, TX+RX 1 canale
AHD/TVI/CVI 1080p, 960H + 1 RS 485 Data

LO592VTR1DFSW: 5MP, TX+RX 2 canali
AHD/TVI/CVI 1080p, 960H + 1 RS 485 Data

LO91VTR1DFSW: 1080p, TX+RX 1 canale
AHD/TVI/CVI 1080p, 960H + 1 RS 485 Data

LO92VTR1DFSW: 1080p, TX+RX 2 canali
AHD/TVI/CVI 1080p, 960H + 1 RS 485 Data

SPECIFICA	LO591VTR1DFSW / LO592VTR1DFSW		LO91VTR1DFSW / LO92VTR1DFSW	
Modello	TX	RX	TX	RX
Ingresso	1x / 2x BNC 1x RS-485	fibra FC/PC	1x / 2x BNC 1x RS-485	fibra FC/PC
Uscita	fibra FC/PC	1x / 2x BNC 1x RS-485	fibra FC/PC	1x / 2x BNC 1x RS-485
Video				
Interfaccia	BNC			
Impedenza	75 Ω			
Ampiezza video	1.0 Vpp typ.			
Risoluzione	5MP / 4MP / 3MP / 1080p / 720p / 960H		AHD / TVI / CVI / 1920x1080 / 960H	
Guadagno differenziale (10%-90% APL)	< ±1.5 %		< ±1 % typ.	
Guadagno di fase (10%-90% APL)	< ±1 % typ.			
SNR	> 60 dB (8Bit)			
Interfaccia Ottica				
Lunghezza d'onda	1310 / 1550 nm		1310 / 1470 / 1610 nm	
Tipo cavo fibra ottica	9/125 μ single mode			
Potenza in uscita tipica	-8 ÷ -3 dBm		-3 ÷ -9 dBm	
Sensibilità ricezione	-26 dBm			
Interfaccia	FC/PC			
Varie				
Alimentazione	110 ÷ 240 Vac / 5 Vdc - 2 A			
Temperatura d'esercizio	-15° ÷ +65° C		0° ÷ +60° C	

LO59xVTR1DFSW, LO9xVTR1DFSW



LO594VTR1DFSW

5 MP

2 MP

LO594VTR1DFSW: 5MP, TX+RX 4 canali AHD/
TVI/CVI 1080p, 960H + 1 RS 485 Data One Way

LO598VTR1DFSW: 5MP, TX+RX 8 canali AHD/TVI/
CVI 1080p, 960H + 1 RS 485 Data One Way

LO94VTR1DFSW: 1080p, TX+RX 4 canali AHD/
TVI/CVI 1080p, 960H + 1 RS 485 Data One Way

LO98VTR1DFSW: 1080p, TX+RX 8 canali AHD/TVI/
CVI 1080p, 960H + 1 RS 485 Data One Way

SPECIFICA		LO594VTR1DFSW / LO598VTR1DFSW		LO94VTR1DFSW / LO98VTR1DFSW	
Modello	TX	RX	TX	RX	
Ingresso	4x / 8x BNC 1x RS-485	fibra FC/PC	4x / 8x BNC 1x RS-485	fibra FC/PC	
Uscita	fibra FC/PC	4x / 8x BNC 1x RS-485	fibra FC/PC	4x / 8x BNC 1x RS-485	
Video					
Interfaccia	BNC				
Impedenza	75 Ω				
Ampiezza video	1.0 Vpp typ.				
Risoluzione	5MP / 4MP / 3MP / 1080p / 720p / 960H		AHD / TVI / CVI / 1920x1080 / 960H		
Guadagno differenziale (10%-90% APL)	< ±1.5 %		< ±1% typ.		
Guadagno di fase (10%-90% APL)	< ±1°		< ±1% typ.		
SNR	> 67 dB		> 60 dB (8 Bit)		
Interfaccia Ottica					
Lunghezza d'onda	1310 / 1550 nm		1310 / 1470 / 1610 nm		
Tipo cavo fibra ottica	9/125 μ single mode				
Potenza in uscita tipica	-8 ÷ -3 dBm		-3 ÷ -9 dBm		
Sensibilità ricezione	-26 dBm				
Interfaccia	FC/PC				
Varie					
Alimentazione	110 ÷ 240 Vac / 5Vdc - 2A				
Temperatura d'esercizio	-15° ÷ +65° C		0° ÷ +60° C		

LO7xVTR1DFSW



LO72VTR1DFSW



LO71VTR1DFSW: TX + RX 1 canale AHD / TVI / CVI 1080p, 960H + 1 RS 485 Data One Way, 1x Fibra Multi Mode con connettore ST/PC, portata fino a 500 m.

LO72/74VTR1DFSW: TX + RX 2/4 canali AHD / TVI / CVI 1080p, 960H + 1 RS 485 Data One Way, 1x Fibra Multi Mode con connettore ST/PC, portata fino a 300 m.

SPECIFICA	LO71VTR1DFSW / LO72VTR1DFSW		LO74VTR1DFSW	
Modello	TX	RX	TX	RX
Ingresso	1x/2x BNC 1x RS-485	1x/2x BNC 1x RS-485	4x BNC 1x RS-485	4x BNC 1x RS-485
Uscita	Fibra ST/PC			
Video				
Interfaccia	BNC			
Impedenza	75 Ω			
Ampiezza video	1.0 Vpp typ.			
Risoluzione	AHD / TVI / CVI / 1920x1080 / 960H			
Guadagno differenziale (10%-90% APL)	< ±1% typ.			
Guadagno di fase (10%-90% APL)	< ±1% typ.			
SNR	> 60 dB (8Bit)			
Interfaccia Ottica				
Lunghezza d'onda	1310 / 1470 / 1610 nm			
Tipo cavo fibra ottica	50 / 125 μ Multi Mode			
Potenza in uscita tipica	-3 ÷ -9 dBm			
Sensibilità ricezione	-26 dBm			
Varie				
Alimentazione	110 ÷ 240 Vac / 5 Vdc - 2 A			
Temperatura d'esercizio	0° ÷ +60° C			

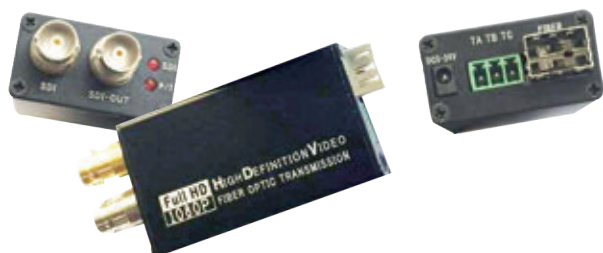
LOUSB3SMFC, LOUSB3MMST



LOUSB3SMFC:
KIT trasmettitore + ricevitore estensore USB
Trasmettitore supporta:
2x USB tastiere, mouse o memorie USB
Ricevitore supporta:
1x USB PC NVR/DVR.
Connettore fibra FC/PC.

SPECIFICA	LOUSB3SMFC	LOUSB3MMST
Fibra Ottica		
Connettore	1x SM FC/FC	2x MM SC/ST
Lunghezza d'onda	1310 / 1550nm	
Portata	20 Km	
Alimentazione		
Voltaggio	5 Vdc	
TX / RX consumo	< 3.5 W	
Varie		
Case	Alluminio nero	
Dimensioni	104 x 104 x 28 mm	
Peso (netto)	0.75 Kg	
Temperatura d'esercizio	-20° ÷ +70° C	

LO121VTRDFSW, LO31VTRDFSW



LO121VTRDFSW: TX+RX 1 canale HD-SDI 4K UHD + 1 RS 485 Data one way + 1 Fibra Single mode
Connettore di uscita FC/PC. Portata 10 Km

LO31VTRDFSW: TX+RX 1 canale HD-SDI 1080p + 1 RS 485 Data one way + 1 Fibra Single mode .
Connettore di uscita FC/PC. Portata 10 Km

LO91VTR1D2A2KLFS, LO91VTR2B2A5KLFS



LO91VTR1D2A2KLFS: TX+RX Ottico 1 ch Video +1 ch Bi-Di Audio + 1 ch RS485 Data + 2 x Contatti Bi-Di NC/NA + Lan 10/100 Single mode conn. FC/PC 20 Km

LO91VTR2B2A5KLFS: TX+RX Ottico 1 ch Video +1 ch Bi-Di Audio + 2 ch BI-DI RS485 Data + 4 x Contatti Bi-Di NC/NA + 1 x NC/NA Fibra loss + Lan 10/100 SM. FC/PC 20 Km

LO11xT1DFSW, LO12xT1DFSW, LO14xT1DFSW



LO11xT1DFSW: Trasmettitore 1x Video 1080p + 1 Way RS485 Data Single mode Ottico Conn. Uscita FC/PC (fibra Single Mode)

LO12xT1DFSW: Trasmettitore 2x Video 1080p + 1 Way RS485 Data Single mode Ottico Conn. Uscita FC/PC (fibra Single Mode)

LO14xT1DFSW: Trasmettitore 4x Video 1080p + 1 Way RS485 Data Single mode Ottico Conn. Uscita FC/PC (fibra Single Mode)

SPECIFICHE		
Modello	TX	
Ingresso	1x/2x BNC / 1x RS-485	4x/8x BNC / 1x RS-485
Uscita	Fibra FC/PC	Fibra FC/PC
Video		
Interfaccia	BNC	
Impedenza	75 Ω	
Ampiezza video	1.0 Vpp typ.	
Risoluzione	1920 x 1080 px	
Guadagno differ. (10%-90% APL)	< ±1 % typ.	
Guadagno di fase (10%-90% APL)	< ±1 % typ.	
SNR	> 60 dB (8Bit)	
Interfaccia Ottica		
Lunghezza d'onda	1310 - 1470 - 1610 nm	
Tipo cavo fibra ottica	9/125 μ single mode	
Potenza in uscita tipica	-3 ÷ -9 dBm	
Sensibilità ricezione	-26 dBm	
Interfaccia	FC/PC	
Varie		
Alimentazione	110 ÷ 240 Vac, 5 Vdc - 2A	
Temperatura d'esercizio	0° ÷ +60° C	

LOFMTR9SC, LOFMTR50SC



LOFMTR9SC: TX + RX ottico single mode adatto per trasporto BUS per centrali allarme RS-232/422/485 9/125 SC/PC 20 Km

LOFMTR50SC: TX + RX ottico multimode adatto per trasporto BUS per centrali allarme RS-232/422/485 50/125 SC/PC 1 Km

Fiber modem is a multi-function and economic RS-232/422/485 interface fiber optic product. Is the best choice to connect RTU to HOST or SCADA controller. It uses Optic fiber as transmission media, increasing the system transmitting function.

Function and characteristic:

- Support RS-232/422/485 interface
- Asynchronous, point to point, rate up 115 Kbps
- Support 5 Vdc power input, consumption 2 W
- 1500 W surge protection, 15 KV static protection
- RS-232/422 port support 32 node (can choose hand tailor 128 node)
- Working wavelength: 1310 nm (multi mode and single mode)
- Auto test signal rate, zero delay, auto-transmit
- Transmit distance: RS-232 port 15 m, RS422/485 port 1500 m, optical port multi mode 2 Km, single mode 20 Km
- Working temperature -25° to +70°C
- Dimensions: 110 x 104 x 28 mm

Fibra ottica / componenti attivi

2024 Q2

INDICE

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Kit switch fibra FTTH

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Media converter SC Single Mode

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Media converter SFP 100M / 1G / 10G

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Media converter OEO

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Switch industriali SFP 100M / 1G / 10G

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HORED switch

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Switch industriali POE 1G / SFP L2

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Switch SFP L2

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Switch POE 24/48 L3

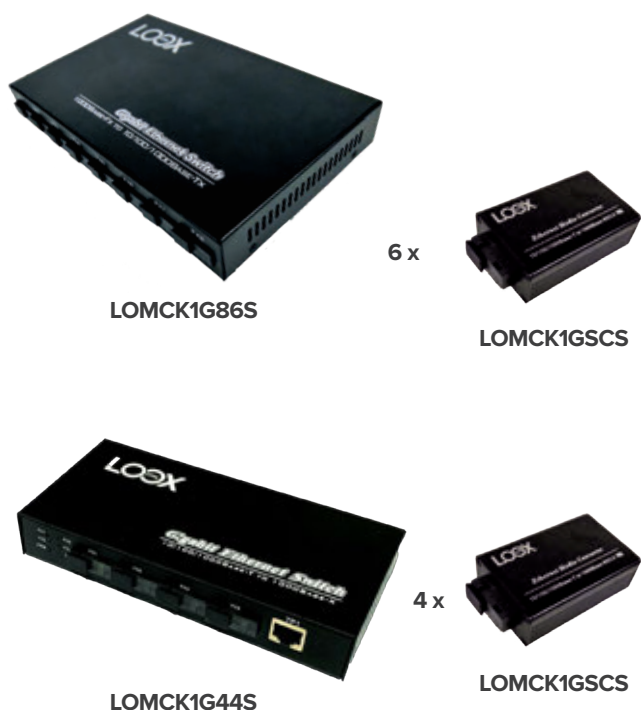
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Switch POE 10/16/24 L2

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Cloud Gateway

LOMCK1G86S, LOMCK1G44S



LOMCK1G86S (LOMCK1G44S)

- 8x 1000Base-SX/LX to 2x 10/100/1000Base-T Port (4x 1000)
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Each port has the complete LED Indicator light
- Support IEEE802.1d Spanning Tree
- Supports high performance QoS function on each port
- Built-in 1 Mb SRAM for packet buffer
- Internal 8K MAC Address Entities
- Support 9K Jumbo packet
- Flow control fully supported
- Supports 256 Bridge Multicast groups
- Support broadcast storm protection
- Wide-range redundant power design (4.5 ÷ 20 Vdc)
- Requires no configuration and will instantly operate as soon as you power it up

SPECIFICA	LOMCK1G86S	LOMCK1G44S
Protocol Standards	IEEE802.3 10Base-T / IEEE802.3u 100Base-TX/FX / IEEE802.3ab 1000Base-T / IEEE802.3z 1000Base-SXLX / IEEE802.3x Flow control / IEEE802.1p QoS / IEEE802.1d Spanning Tree / IEEE802.3az	
Copper port		
Connector	RJ45	
Data Rate	10/100/1000 Mbps	
Distance	0 ÷ 100 m	
UTP Type	UTP-5e or higher level	
Fiber Port Parameters		
Connector	8x SC Simplex Port	4x SC Simplex Port
Data rate	1.25 Gbps	
Optical wavelength	1310 / 1550 nm	
Distance	10 Km	
Performance		
Processing Type	Store and forward	
MAC Table Size	8K	1K
Buffer Space	1 Mb	
Maximum Packet Lenght	9 Kb	
Back bandwidth	20G	14G
Time Delay	< 20µs	
Power		
Input voltage	100 ÷ 240 Vac - 50 / 60 Hz	
Machine power connector	DC socket	
Machine operating voltage	5 Vdc	
Machine power consumption	4 ÷ 10 W	1.8 ÷ 5 W
Working environment		
Working temperature	-10° ÷ +55°C	
Relative humidity	5 ÷ 95% non-condensing	
Mechanical Structure		
Size	216 x 133 x 30 mm	160 x 84 x 26 mm
Net Weight	0.55 Kg	0.30 Kg
Body color	Metal and black	

FTTH

SO-HO

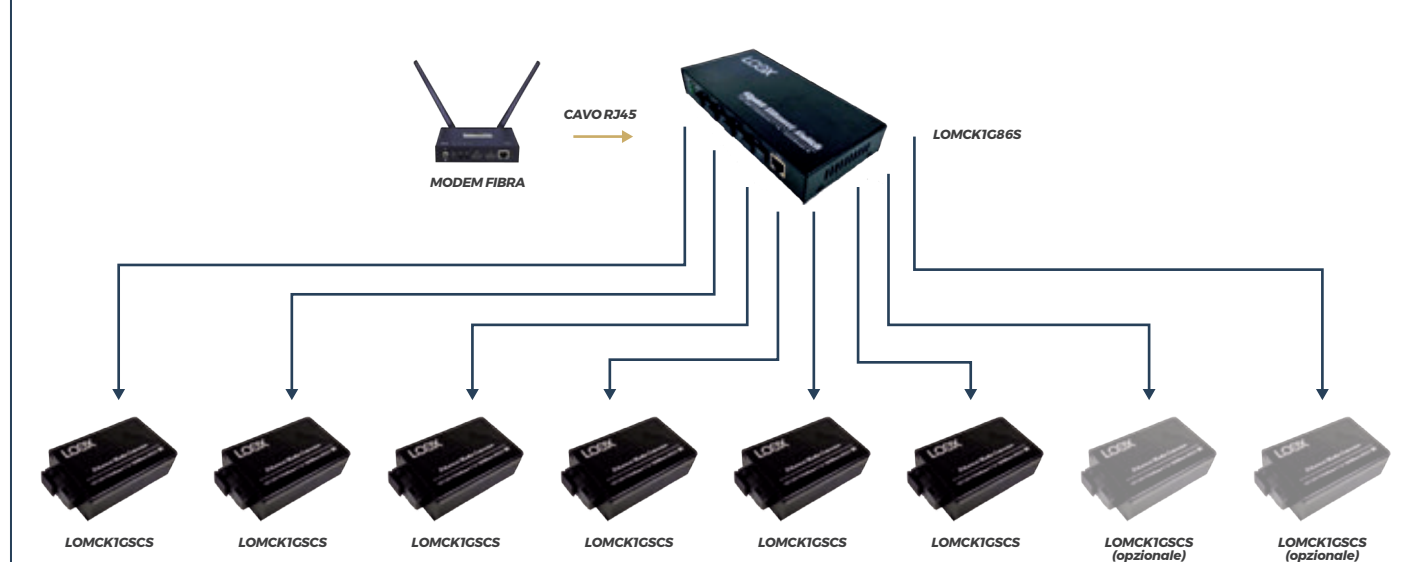
HOTEL

B&B

1GB

LOMCK1G86S

SCHEMA COLLEGAMENTO



LOMCK1GSCS (KIT)



LOMCK1GSCS

Kit composto di LOMCK1GSC53 e LOMCK1GSC35

- 1× 1000Base-SX to 1× 10/100/1000Base-T Port
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Each port has the complete LED Indicator light
- Support IEEE802.1d Spanning Tree
- Supports high performance QoS function on each port
- Flow control fully supported
- Support broadcast storm protection
- Wide-range redundant power design (5 ÷ 16 Vdc)
- 1×9 fixed fiber module or SFP slot optional
- Support max forwarding packet length 9K bytes option
- Requires no configuration and will instantly operate as soon as you power it up
- Small volume
- Low power consumption

SPECIFICA	LOMCK1GSCS
Protocol Standards	IEEE802.3 10Base-T / IEEE802.3u 100Base-TX/FX IEEE802.3ab 1000Base-T / IEEE802.3z 1000Base-SX LX / IEEE802.3x Flow control / IEEE802.1q VLAN / IEEE802.1pQoS / IEEE802.1d Spanning Tree
RJ45 Ports Parameters	
Connector	RJ45
Transmission Rate	10/100/1000 Mbps
UTP Type	UTP-5e or higher
Distance	0 ÷ 100 meters
Fiber Port Parameters	
Connector	SC Simplex Port
Data rate	1.25 Gbps
Optical wavelength	1310 / 1550 nm
Distance	10 Km
Performance	
Processing Type	Store and forward
MAC Table Size	2K
Buffer Space	1 Mb
Maximum Packet Length	9 Kb
Time Delay	<20 µs
Power	
Input voltage	100 ÷ 240 Vac - 50/60 Hz
Connector	DC socket
Working Voltage	5 ÷ 16 Vdc
Power Consumption	0.75 ÷ 3 W
Environment	
Storage temperature	-40° ÷ +70° C
Operating temperature	-10° ÷ +55° C
Relative humidity	5 ÷ 95% (no condensation)
Physical characteristics	
Dimension	62.3 x 42.3 x 22 mm
Weight	0.1 Kg
Color	Metal and black



LOMCK1GSCS (KIT)

SCHEMA COLLEGAMENTO



1 FIBRA OTTICA SINGLE MODE



LOMCXESFP, LOLXGXXX



LOMCXESFP



LOLXGXXX

SPECIFICHE	
Velocità trasmissione	10Gbps
Protocolli	IEEE802.3an (10Gbase-T) IEEE802.3ae (10Gbase-SR/LR/ER/ZR)
Tipo di accesso	10G LAN
Tipo di interfaccia	RJ45 To/From SFP+ RJ45 To/From XFP
Distanza di trasmissione	XFP / SFP+ module: Up to 80 Km 10Gbase-T: 100 m Cat. 6a cable
Maximum Packet Forwarding Rate	14,880,950/S
Alimentazione	100 ÷ 240 Vac – 50 / 60 Hz 40 ÷ 50 Vdc – 50 / 60 Hz
Consumo	≤ 6W (senza modulo)
Dimensioni	90 x 60 x 22 mm

LOMCXESFP: Media converter, con porta RJ45 da 10G, auto-sensing per SFP slot, LC Duplex - SC Simplex.

LOLXG02D: Modulo SFP 10GBASE-LRM, 1310 nm FP, MM, 220 m, Duplex LC.

LOLXG10D: Modulo SFP 10GBASE-LR, 1310 nm DFB, SM, 10 Km, Duplex LC.

LOLXG20D-27: Modulo SFP 10GBASE-LRM, 1310 nm DFB, SM, 20 Km, DDM Simplex SC.

LOLXG20D-33: Modulo SFP 10GBASE-BX-D BIDI, 1330 nm DFB, SM, 20 Km, DDM Simplex SC.

LOMCGESFP, LOMC2RGESFP, LOLGXXXXX



LOMCGESFP



LOLGXXXXX

SPECIFICHE	
Protocollo	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX
Connessioni	
RJ45	10/100/1000 Mbps, Auto MDI/MDI-X UTP/STP Cat. 3, 4, 5 Cable EIA/TIA-568 100 Ω (100 m)
Connessione Fibra Ottica	
Fibra Ottica	1000 Mbps, 1000Base-SX/LX/ZX (SC/ST/FC connector) – Single Mode 0 ÷ 120 Km
Connettore	LC
Lunghezza d'onda	1310 nm
Potenza max trasmissione	≥ -10
Sensibilità	≤ -25
Varie	
Trasferimento dati	10 Mbps, 100 Mbps, 1000 Mbps
Voltaggio ingresso	100-240 Vac; 12 ÷ -48 Vdc
Voltaggio uscita	5 Vdc / 2 A
Consumo	1 ÷ 5 W
Temperatura operativa	0° ÷ 55° C
Dimensioni	90 x 60 x 22 mm
Peso (lordo)	0.4 Kg

LOMCGESFP: media converter, con porta RJ45 10/100/1000M auto-sensing per slot SFP LC Duplex - SC Simplex.

LOLGRJ45: Modulo RJ45 Rame su slot SFP 10/100/1000 BASE-T

LOLG1G04D: Modulo SFP 1000BASE, 850 nm, FP, MM, 0,5 Km, 10dB DDMI Duplex LC

LOLG1G06D: Modulo SFP 1000BASE, 1310 nm, FP, MM, 2 Km, 10 dB DDMI Duplex LC

LOLG1G06D-35: Modulo SFP 1000BASE-BX-U (TX 1310 RX1550) BIDI 1310 nm, MM, 2 Km, 10 dB FP Simplex LC

LOLG1G06D-53: Modulo SFP 1000BASE-BX-D (TX 1550 RX1310) BIDI 1550 nm, MM, 2 Km, 10 dB FP Simplex LC

LOLG1G20D: Modulo SFP 1000BASE-LX 1310 nm, FP, SM, 20 Km, 15 dB DDMI Duplex LC

LOLG1G20D-35: Modulo SFP 1000BASE-BX-U (TX 1310 RX1550) BIDI 1310 nm, FP, SM, 20 Km, 14 dB DDMI Simplex SC

LOLG1G20D-53: Modulo SFP 1000BASE-BX-D (TX 1550 RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

LOLG1G20D-34: Modulo SFP 1000BASE-BX-U (TX 1310 RX1490) BIDI 1310 nm, FP, SM, 20 Km, 14 dB DDMI Simplex SC

LOLG1G20D-43: Modulo SFP 1000BASE-BX-D (TX 1490 RX1310) BIDI 1490 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

LOMC2RGESFP: media converter con 2x RJ45 10/100/1000M auto-sensing per SFP slot LC Duplex - SC Simplex. Dimensioni 90 x 60 x 22 mm.



LOMC2RGESFP

LOMCFESFP, LOLF1XXXX



LOMCFESFP



LOLF1XXXX

SPECIFICHE	
Protocollo	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX
Conessioni	
RJ45	1x 10/100BaseT(X), Auto-negotiation, Auto MDI/MDI-X UTP/STP Cat. 3, 4, 5 Cable EIA/TIA-568 100 Ω (100 m)
Connessione Fibra Ottica	
Fibra Ottica	1x 100Base-FX (SC/ST/FC connector) Single Mode 0 ÷ 120 Km
Connettore	LC
Lunghezza d'onda	1310 nm
Potenza max trasmissione	≥ -12
Sensibilità	≤ -36
Varie	
Trasferimento dati	10Mbps, 100Mbps
Voltaggio ingresso	100 ÷ 240 Vac; 12 / -48 Vdc
Voltaggio uscita	5 Vdc / 1 A
Consumo	1 ÷ 5W
Temperatura operativa	0° ÷ +55° C
Dimensioni	90 x 60 x 22 mm
Peso (lordo)	0.4 Kg

LOMCFESFP: Media converter, con porta RJ45 10/100M auto-sensing per slot SFP LC Duplex - SC Simplex. Dim. 90 x 60 x 22mm.

LOLF1E06D: Modulo SFP 100BASE-FX 1310nm FP MM, 2 Km, 17 dB DDMI Duplex LC.

LOLF1E06D-35: Modulo SFP 100BASE-BX-U (TX 1310 RX1550) BIDI 1310 nm FP, MM, 2 Km, 13 dB DDMI Simplex SC.

LOLF1E06D-53: Modulo SFP 100BASE-BX-D (TX 1550 RX1310) BIDI 1550 nm FP, MM, 2 Km, 13 dB DDMI Simplex SC.

LOLF1E20D: Modulo SFP 100BASE-LX 1310 nm FP SM, 20 Km, 19 dB DDMI Duplex LC.

LOLF1E20D-35: Modulo SFP 100BASE-BX-U (TX 1310 RX1550) BIDI 1310 nm FP, SM, 20 Km, 14 dB DDMI Simplex SC.

LOLF1E20D-53: Modulo SFP 100BASE-BX-D (TX 1550 RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC.

LOM2SFP - Fiber to fiber converter



10 GB

LOM2SFP

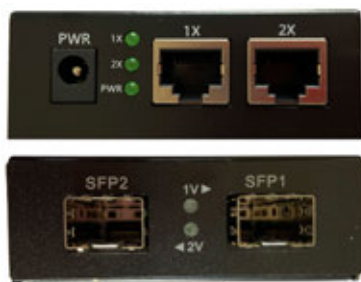
- 125M÷11.7G OEO Converter (3R Repeater) is connection between fiber to fiber 10 Gbps equipment
- Function as fiber media converter, or as fiber repeater for long distance transmission.
- OEO for network backbone (SAN, LAN, MAN). Support SDH/SONET STM-64/OC-192 10G fiber channel 10G Ethernet etc.
- Can be applied in Telecommunication room, R&D laboratory, Data center, etc.
- 1310nm/1550nm/CWDM/DWDM Optical Wavelength Conversion. Support Loopback

SPECIFICHE	
Performance Data	Technical Indexes
Equipment function	3R Repeater
Transmission Speed	125 Mbps ÷ 11.7 Gbps
Protocols	Fast Ethernet / STS-3/STM-1 / ESCON/SBICON / STS-12/STM-4 / 1x Fiber Channel / Gigabit Ethernet 2x Fiber Channel / STS-48/STM-16 / 2.5 InfiniBand or PCI Express / 4x Fiber Channel / 8.5G Fiber Channel / SONET OC-192, SDH STM-64 (9.95Gbps) / 10G WAN (10Gbps) / 10G LAN (10.31Gbps) / OTN OTU-2 (G.709) (10.70Gbps) / 10G LAN with 255/237 FEC coding (11.09Gbps) / 10G Fiber Channel (11.32Gbps) / 10G POS
Interface Type	Type A : XFP to SFP+ / Type B : SFP+ to XFP
Transmission Distance	XFP / SFP+ module: up to 80 Km
Maximum Packet Forwarding Rate	14,880,950/S
Power requirement	Rack-mountable : 85 ÷ 220 Vac or -48 Vdc Standalone: 110 ÷ 220Vac or -48 to 5V - 2A Power consumption: ≤ 4W
Work Environment	Operating Temperature: 0 ÷ +50° C Humidity: 5 ÷ 90% (non-condensing)
Dimension	Standalone: 60 x 20 x 90 mm

LOMC2R2GESFP, LOLG1GXXX



LOMC2R2GESFP



1 GB

LOMC2R2GESFP

- 2x 10/100/1000Base-T Port (4x 1000)
- 2x RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Each port has the complete LED Indicator light
- Support IEEE802.1d VLAN tag, Spanning Tree
- Flow control fully supported
- Supports over-sized packets up to 1552 Bytes
- Requires no configuration and will instantly operate as soon as you power it up

SPECIFICA	LOMC2R2GESFP
Protocol Standards	IEEE802.3 10Base-T / IEEE802.3u 100Base-TX/FX / IEEE802.3ab 1000Base-T / IEEE802.3z 1000Base-SX/LX / IEEE802.3x Flow control / IEEE802.1q VLAN / IEEE802.1pQoS / IEEE802.1d Spanning Tree
RJ45 Ports Parameters	
Connector	2x RJ45
Transmission Rate	10/100/1000 Mbps
UTP Type	UTP-5e or higher
Distance	0 ÷ 100 m
Fiber Port Parameters	
Connector	2x SFP slot
Data rate	1.25 Gbps
Optical wavelength	MM 850, 1300, 1310 nm / SM 1310, 1550 nm
Distance	MM up to 5Km / SM up to 60 Km
Power	
Input voltage	100 ÷ 240 Vac - 50/60 Hz
Connector	DC socket
Working Voltage	5 Vdc - 2A
Power Consumption	10W max
Environment	
Storage temperature	-40° ÷ +105° C
Operating temperature	-10° ÷ +70° C
Relative humidity	5 to 90% (no condensation)
Physical characteristics	
Dimension	95 x 70 x 26 mm
Weight	0.15 Kg
Color	Metal and black



LOLG1GXXX

LOLG1G04D: Module SFP 1000BASE, 850 nm FP, MM, 0,5 Km, 10 dB DDMI Duplex LC

LOLG1G06D: Module SFP 1000BASE, 1310 nm FP, MM, 2 Km, 10 dB DDMI Duplex LC

LOLG1G06D-35: Modulo SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm, MM, 2 Km, 10 dB FP Simplex LC

LOLG1G06D-53: Modulo SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm, MM, 2 Km, 10 dB FP Simplex LC

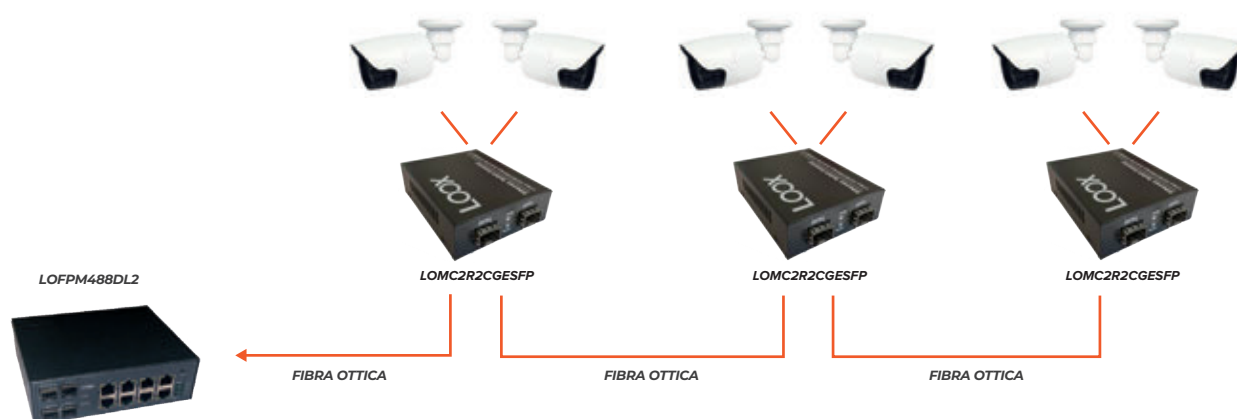
LOLG1G20D: Module SFP 1000BASE-LX 1310 nm FP, SM, 20 Km, 15 dB DDMI Duplex LC

LOLG1G20D-35: Module SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm FP, SM, 20 km, 14 dB DDMI Simplex SC

LOLG1G20D-53: Module SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

LOMC2R2CGESFP

SCHEMA COLLEGAMENTO



7IS02GPS-2F, LOLG1GXXX



7IS02GPS-2F



7IS02GPS-2F

- 2x 10/100/1000Base-T Port
- 2x RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- 2x 1000Mbps SFP fiber ports
- Each port has the complete LED Indicator light
- Supports IEEE802.3af PoE (15.4 W) or IEEE802.3at PoE+ (30 W)
- Supports Link Fault Pass Through
- MAC address table 2K
- Supports 9K Bytes Jumbo Frame
- Supports DIN-Rail & Wall-mount installation
- Requires no configuration and will instantly operate as soon as you power it up



LOLG1GXXX

- LOLG1G04D:** Module SFP 1000BASE, 850 nm FP, MM, 0,5 Km, 10 dB DDMI Duplex LC
- LOLG1G06D:** Module SFP 1000BASE, 1310 nm FP, MM, 2 Km, 10 dB DDMI Duplex LC
- LOLG1G06D-35:** Modulo SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm, MM, 2 Km, 10 dB FP Simplex LC
- LOLG1G06D-53:** Modulo SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm, MM, 2 Km, 10 dB FP Simplex LC
- LOLG1G20D:** Module SFP 1000BASE-LX 1310 nm FP, SM, 20 Km, 15 dB DDMI Duplex LC
- LOLG1G20D-35:** Module SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm FP, SM, 20 Km, 14 dB DDMI Simplex SC
- LOLG1G20D-53:** Module SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

PRODOTTI CORRELATI



LOC48V60W

SPECIFICHE	
Alimentazione	100 ÷ 240Vac – 50 / 60Hz
Uscita	48 Vdc - 1,25 A
Potenza	60 W
Dimensioni	110 x 52 x 33 mm
Note	Adatto per serie POE 7IS102GPS-2F

7IS024GPS-RJ, 7IS022GPS-RJ, LOLG1GXXX



7IS024GPS-RJ



7IS024GPS-RJ, 7IS022GPS-RJ

- Mini industrial switch, DIN-rail mounting method
- 4x 10/100/1000Base-T Port (2x 7IS022GPS-RJ)
- 2x 1000 Mbps SFP fiber ports
- RJ45 ports support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Each port has LED Indicator light
- 4KV Ethernet surge protection
- Max power to 15.4 W under af standard and 30 W under at standard to each PoE port
- Support IEEE802.1d VLAN tag, Spanning Tree
- Flow control fully supported
- MAC address table 8K
- Supports for up to 9K long packet transmission
- Support dual input power supply 48 ÷ 52 Vdc, output power is determinated by POE load
- IP40 grade protection, corrugated high strenght metal casing
- The reliable industrial grade design could ensure continuous and stable operation of the automation system.

SPECIFICA	7IS024GPS-RJ / 7IS022GPS-RJ
Protocol Standards	IEEE802.3i 10Base-T / IEEE802.3u 100Base-TX / IEEE802.3af POE IEEE802.1af DTE Power via MIDI / IEEE802.3x Flow control IEEE802.3z 1000Base-SX/LX, IEEE802.1d Spanning tree, IEEE802.1p QoS, IEEE802.3az
RJ45 Ports Parameters	
Connector	4x RJ45 / 2x RJ45
Transmission Rate	10/100/1000 Mbps
UTP Type	UTP-5e or higher
Distance	0 ÷ 100 meters
Fiber Port Parameters	
Connector	2x SFP slot
Data rate	1.25 Gbps
Optical wavelength	MM 850, 1310 nm / SM 1310, 1490, 1550 nm
Distance	MM up to 2 Km / SM up to 120 Km
Power	
Input voltage	100 ÷ 240 Vac - 50 / 60 Hz
Connector	Flange terminal
Working Voltage	5 Vdc
Power Consumption	10 W max (no POE load)
Environment	
Operating temperature	-40° ÷ +85° C
Relative humidity	5 to 90% (no condensation)
Physical characteristics	
Dimension	114 x 93 x 35 mm
Weight	0.35 Kg
Color	Metal and black

1GB



LOLG1GXXX

- LOLG1G04D:** Module SFP 1000BASE, 850 nm FP, MM, 0,5 Km, 10 dB DDMI Duplex LC
LOLG1G06D: Module SFP 1000BASE, 1310 nm FP, MM, 2 Km, 10 dB DDMI Duplex LC
LOLG1G06D-35: Modulo SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm, MM, 2 Km, 10 dB FP Simplex LC
LOLG1G06D-53: Modulo SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm, MM, 2 Km, 10 dB FP Simplex LC
LOLG1G20D: Module SFP 1000BASE-LX 1310 nm FP, SM, 20 Km, 15 dB DDMI Duplex LC
LOLG1G20D-35: Module SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm FP, SM, 20 Km, 14 dB DDMI Simplex SC
LOLG1G20D-53: Module SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

PRODOTTI CORRELATI



7PS52V3A

SPECIFICHE	
Alimentazione	100 ÷ 240Vac – 50 / 60Hz
Uscita	52 Vdc - 3,15 A
Potenza	150 W
Montaggio	Barra DIN
Dimensioni	125 x 130 x 40 mm
Note	Adatto per serie POE > 4/8 porte

7IPS33012FM, LOLG1GXXX, LOLGRJ45

**7IPS33012FM**

1 GB

7IPS33012FM

- Industrial switch, DIN-rail mounting method
- Switch capacity: 256Gbps
- MAC address table 8K
- 2x 10/100/1000Base-T Port
- 12x 1000Mbps SFP fiber ports
- RJ45 ports support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Each port has the complete LED Indicator light
- 4KV Ethernet surge protection
- Support IEEE802.1d VLAN tag, QinQ configuration
- Flow control fully supported
- L2+ full network management
- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3)
- QoS, Priority mode based on 802.1P, Port & DSCP, the queue scheduling algorithm including EQU, SP, WRR & SP+WRR
- CPU/memory monitoring, Ping test, cable diagnose
- Low power consumption, fan-less design
- Support dual input power supply voltage: 12-48Vdc
- IP40 grade protection, corrugated high strength metal casing
- The reliable industrial grade design could ensure continuous and stable operation of the automation system.

SPECIFICA	7IPS33012FM
Protocol Standards	IEEE802.3 10Base-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Switch capacity	256 Gbps
MAC address table	8K
RJ45 Ports Parameters	
Connector	2x RJ45 / 1x RS232 console
Transmission Rate	10/100/1000 Mbps
UTP Type	UTP-5e or higher
Distance	0 ÷ 100 meters
Fiber Port Parameters	
Connector	12x SFP slot
Data rate	1.25 G
Optical wavelength	MM 850 nm / SM 1310, 1550 nm
Distance	MM up to 0,5 Km / SM up to 120 Km
Power	
Input voltage	100 ÷ 240 Vac - 50/60 Hz
Connector	Flange terminal
Working Voltage	12 ÷ 48 Vdc
Power Consumption	15 W max
Environment	
Operating temperature	-40° ÷ +85° C
Relative humidity	5 to 90% (no condensing)
Physical characteristics	
Dimension	165 x 148 x 54 mm
Weight	0.8 Kg
Color	Metal and black

**LOLG1GXXX**

- LOLG1G04D:** Module SFP 1000BASE, 850 nm FP, MM, 0,5 Km, 10 dB DDMI Duplex LC
LOLG1G06D: Module SFP 1000BASE, 1310 nm FP, MM, 2 Km, 10 dB DDMI Duplex LC
LOLG1G06D-35: Modulo SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm, MM, 2 Km, 10 dB FP Simplex LC
LOLG1G06D-53: Modulo SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm, MM, 2 Km, 10 dB FP Simplex LC
LOLG1G20D: Module SFP 1000BASE-LX 1310 nm FP, SM, 20 Km, 15 dB DDMI Duplex LC
LOLG1G20D-35: Module SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm FP, SM, 20 Km, 14 dB DDMI Simplex SC
LOLG1G20D-53: Module SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

**LOLGRJ45****LOLGRJ45:** Module RJ45 Copper on slot SFP 10/100/1000 BASE-T

7IPS33012FM is a full gigabit L2+ managed industrial Ethernet fiber switch: it has 2x 10/100/1000Base-T RJ45 ports and 12x 100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding. The **7IPS33012FM** has L2+ full network management function, IPV4/IPV6 management, software/static route forwarding, security protection mechanisms, complete ACL/QoS policies, and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-TG.8032) ERPS (<20ms) to improve link backup and network reliability. Any port can be looped, supporting chain, star, Double star, ring, tangent ring, intersecting ring, coupling ring, self-healing within 20 ms of the ring network. When a one-way network fails, communication can be quickly resumed to ensure uninterrupted communication of important applications.

This model has high reliability, high security, and high manageability. The industrial products fully comply with industrial product design and materials. The shell is made of aluminum alloy to enhance heat dissipation performance, and has excellent industrial field environment adaptability (including mechanical stability, climatic environment adaptability, electromagnetic environment adaptability, etc.), protection class up to IP40, support dual redundant power supply, low power fanless cooling technology, MTBF average trouble-free working time up to 35 years.

7IPS36248FM, LOLG1GXXX, LOLGRJ45

**7IPS36248FM**

10 GB

7IPS36248FM

- Industrial switch, DIN-rail mounting method
- Switch capacity: 598 Gbps
- MAC address table 32K
- 12x 10/100/1000Base-T Port
- 8x 1Gbps + 4x 10Gbps SFP fiber ports
- RJ45 ports support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Each port has the complete LED Indicator light
- 6KV Ethernet surge protection
- Support IEEE802.1d VLAN tag, QinQ configuration
- Flow control fully supported
- L2+ full network management
- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3)
- QoS, Priority mode based on 802.1P, Port & DSCP, the queue scheduling algorithm including EQU, SP, WRR & SP+WRR
- CPU monitoring, memory monitoring, Ping test, and cable diagnose
- Low power consumption, fan-less design,
- Support dual power input power supply 12-48Vdc
- IP40 grade protection, corrugated high strength metal casing
- The reliable industrial grade design could ensure continuous and stable operation of the automation system.

SPECIFICA	7IPS36248FM
Protocol Standards	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3ae 10GBase-LR/SR, IEEE802.3x
Switch capacity	598 Gbps
MAC address table	32K
RJ45 Ports Parameters	
Connector	12x RJ45 / 1x RS232 console
Transmission Rate	10/100/1000 Mbps
UTP Type	UTP-5E or higher
Distance	0 ÷ 100 meters
Fiber Port Parameters	
Connector	8x 1 Gbps SFP slot / 4x 10 Gbps SFP slot
Data rate	2.5 G
Optical wavelength	MM 850 nm / SM 1310, 1550 nm
Distance	MM up to 0,5 Km (0.3 Km 10 Gb) / SM up to 120 Km
Power	
Input voltage	100 ÷ 240 Vac - 50 / 60 Hz
Connector	Flange terminal
Working Voltage	12 ÷ 48 Vdc
Power Consumption	36 W max (no POE load)
Environment	
Operating temperature	-40° ÷ +80° C
Relative humidity	5 to 90% (no condensing)
Physical characteristics	
Dimension	166 x 149 x 89 mm
Weight	2.2 Kg
Color	Metal and black

**LOLG1GXXX**

- LOLG1G04D:** Module SFP 1000BASE, 850 nm FP, MM, 0,5 Km, 10 dB DDMI Duplex LC
LOLG1G06D: Module SFP 1000BASE, 1310 nm FP, MM, 2 Km, 10 dB DDMI Duplex LC
LOLG1G06D-35: Modulo SFP 1000BASE-BX-U (TX 1310 - RX1550) BIDI 1310 nm, MM, 2 Km, 10 dB FP Simplex LC
LOLG1G06D-53: Modulo SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm, MM, 2 Km, 10 dB FP Simplex LC
LOLG1G20D: Module SFP 1000BASE-LX 1310 nm FP, SM, 20 Km, 15 dB DDMI Duplex LC
LOLG1G20D-35: Module SFP 1000BASE-BX-U (TX 1310 -RX1550) BIDI 1310 nm FP, SM, 20 Km, 14 dB DDMI Simplex SC
LOLG1G20D-53: Module SFP 1000BASE-BX-D (TX 1550 - RX1310) BIDI 1550 nm DFB, SM, 20 Km, 14 dB DDMI Simplex SC

**LOLGRJ45****LOLGRJ45:** Module RJ45 Copper on slot SFP 10/100/1000 BASE-T

The **7IPS36248FM** is a L2+ 10G uplink managed industrial Ethernet fiber switch: it has 12x 10/100/1000Base-T RJ45 ports, 8x 100/1000Base-X SFP fiber slot ports and 4x 1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding. The **7IPS36248FM** has the L2+ full network management function, IPV4/IPV6 management, software/static route forwarding, security protection mechanisms, complete ACL/QoS policies, rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (< 50 ms) and (ITU-TG.8032) ERPS (< 20 ms) to improve link backup and network reliability. Any port can be looped, supporting chain, star, Double star, ring, tangent ring, intersecting ring, coupling ring, self-healing within 20 ms of the ring network. When a one-way network fails, communication can be quickly resumed to ensure uninterrupted communication of important applications.

This model has high reliability, high security, and high manageability. It ensures reliable transmission of critical data, supports remote management, and can be clustered with the NMS network management platform of the optical network to achieve blind management.

The shell is made of aluminum alloy to enhance heat dissipation performance, and has excellent industrial field environment adaptability, protection class up to IP40, support dual redundant power supply, low power fanless cooling technology, MTBF average trouble-free working time up to 35 years.

HORED®

Intelligence Network Switch

AI Poe

- **AI POE:** Lo switch in assenza di un flusso dati per più di 120 secondi, riavvia automaticamente i dispositivi POE connessi alla porta.

AI Extend

- **AI EXTEND:** Supporta POE e dati fino a 250 mt.

AI Qos

- **AI QOS:** Lo Switch dà priorità al flusso video in modo indipendente ad ogni porta.

AI Vlan

- **AI VLAN:** Isola le porte di collegamento tra loro, evita il sovraccarico dei dati di rete e migliora le prestazioni dello switch.

AI Loop

- **AI LOOP:** Controlla automaticamente lo stato del loop dello switch e ne gestisce la direzione del flusso dati.

AI Web

- **AI WEB:** Interfaccia Web per la gestione e la configurazione del dispositivo.

AI Cloud

- **AI CLOUD:** Esclusivamente con l'utilizzo di 7M1APOLLO è possibile usufruire della piattaforma Visual Cloud, che permette la gestione e la manutenzione dei dispositivi (fino a 128) connessi alla medesima rete.

7IS108GPS-4F, 7IS108GPS-2F, 7IS104GPS-2F


L2
Layer2

AI
Cloud

7IS108GPS-4F / 7IS104GPS-2F

- MAC address: 8K
- Port Cache: 2 Mbit
- 100 Mbps forwarding speed: 148810pps
- Gigabit forwarding speed: 1488100pps
- 100M maximum filter speed: 148810pps
- Gigabit maximum filtration speed: 1488100pps
- Transmission method: store and forward
- Backplane bandwidth: 24 Gbps
- Switching Delay: < 5 μs
- Input voltage: 48 ÷ 56 Vdc
- Input method: plug-in 5-core 5.08 mm pitch terminal block
- Support dual DC power backup, built-in over current protection
- Power supply anti-reverse connection

AI
Poe

AI
Extend

AI
Qos

AI
Vlan

AI
Loop

AI
Web

SPECIFICA	7IS108GPS-4F, 7IS108GPS-2F / 7IS104GPS-2F
Chip	Broadcom high performance chip
Flash/Ram	16Mb / 64Mb DDR4
Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X IEEE 802.3af/at
Exchange characteristics	MAC address: 8K Port Cache: 2 Mbit Backplane bandwidth: 12 Gbps Switching Delay: <5 μs 100Mbps forwarding speed: 148810pps Gigabit forwarding speed: 1488100pps 100M maximum filter speed: 148810pps Gigabit maximum filtration speed: 1488100pps
Ports	8x 10/100/1000Base-Tx RJ45 - Max power 46 W port Optical port: 4x 1000Base-X (SFP), 2x 1000Base-X (SFP)
Front panel indicator	Interface indicator: Link (1÷4/F1÷F2)
Power supply	Input voltage: 48 Vdc Input method: 5-pin 3.81 mm-spacing plug-in terminal block Support dual DC power backup, built-in over current protection Power supply support anti-reverse connection
Power consumption	No-load power: 4 W@48 Vdc Full load power: 60 W@48 Vdc (including POE output)
Physical characteristics	Housing: IP40 grade protection, corrugated high strength metal housing Installation: DIN rail mounting Dimensions (L x W x H): 134 x 30 x 90 mm Weight: 0.5kg
Industry Standard	EMI:FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8 KV (contact), ±15 KV (air) IEC61000-4-3 (RS): 10 V/m (80 MHz - 2 GHz) IEC61000-4-4 (EFT): Power Port: ±4 KV; Data Port: ±2 KV IEC61000-4-5 (Surge): Power Port: ±2 KV/DM, ±4 KV/CM; Data Port: ±6 KV IEC61000-4-6(CS): 3V (10 ÷ 150 kHz); 10V (150 kHz ÷ 80 MHz) IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall)
Working environment	Working temperature: -40 ÷ +75° C Storage temperature: -40 ÷ +75° C Relative humidity: 5 ÷ 95 % (no condensation)
Certification	CE, FCC, RoHS
MTBF	100,000 hrs
ESD	Contact: ±8 KV Air: ±15 KV

7IS108GPS-4F / 7IS104GPS-2F

SCHEMA COLLEGAMENTO



FIBRA OTTICA

CAVO UTP



IP POE CAMERA



7S5700-12G-12F



SPECIFICA	7S5700-12G-12F
Chipset	Broadcom high performance chip
Flash	16 Mb
Storage	128 Mb DDR
Port	12x 10/100/1000Mbps RJ45 port 12x Gigabit SFP port 1x RJ45 Console port
Performance	Forward mode: store and forward Bandwidth: 48 Gbps Packet forwarding rate: 41.664 Mpps Support 8K MAC address table depth
Lightning protection	±6 KV
ESD	Contact: ±6 KV Air: ±8 KV
Input power	100 ÷ 240 Vac / 50 - 60 Hz
Dimensions (L×W×H)	440 × 180 × 44 mm

7S5700-12G-12F

- Support hardware watchdog, restore factory Settings, system and port LED
- Support global information, statistics, log information
- Support user management, alarm management, configuration management
- Support port rate, duplex, flow control, maximum frame length configuration
- Support port mirroring, port speed limit, port energy saving
- Support three management methods: local management, cloud management, mobile management
- Prevention in advance - Real-time map, fast fault location
- Cloud operation, maintenance, configuration, upgrade batch processing
- Multi-user, multi-dimensional authority, hierarchical control
- AI blessing, intelligent scheduling
- Business analysis and decision making - Open interface, customer business import
- Support for automatic identification, management and acquisition of information about the downlink device
- Support Layer 2 interface
- Support port redirection, flow rate limiting, QoS re-marking



7S5700-12G-12F

SCHEMA COLLEGAMENTO



FIBRA OTTICA



CAVO UTP



IP POE CAMERA

7S5700-24F-8G-4TF



SPECIFICA	7S5700-24F-8G-4TF
Chipset	Broadcom high performance chip
Flash	16 Mb
Storage	256 Mb DDR
Port	8x 10/100/1000Mbps RJ45 ports Combo 4x 10G SFP ports 24x Gigabit SFP ports 1x RJ45 Console port 1x USB 2.0 , 1 Mini-usb Console port
Performance	Forward mode: store and forward Bandwidth: 128 Gbps Rate: 96 Mpps Support 16K MAC address table depth
Lightning protection	±6 KV
ESD	Touch : ±6 KV air : ±8 KV
Input power	100 ÷ 240 Vac / 50 - 60 Hz
Dimensions (L×W×H)	440 × 320 × 44 mm

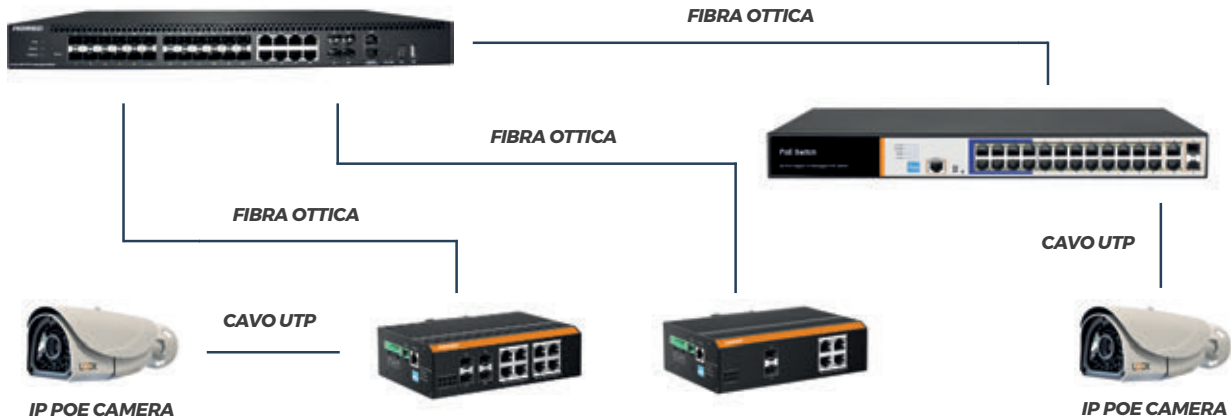
7S5700-24F-8G-4TF

- Support hardware watchdog, restore factory Settings, system and port LED
- Support global information, statistics, log information
- Support user management, alarm management, configuration management
- Support port rate, duplex, flow control, maximum frame length configuration
- Support port mirroring, port speed limit, port energy saving
- Support three management methods: local management, cloud management, mobile management
- Prevention in advance - Real-time map, fast fault location
- Cloud operation, maintenance, configuration, upgrade batch processing
- Multi-user, multi-dimensional authority, hierarchical control
- AI blessing, intelligent scheduling
- Business analysis and decision making - Open interface, customer business import
- Support for automatic identification, management and acquisition of information about the downlink device
- Support Layer 3 interface
- Support port redirection, flow rate limiting, QoS re-marking



7S5700-24F-8G-4TF

SCHEMA COLLEGAMENTO



7S5700-48GP-4TF / 7PS2024G



7S5700-48GP-4TF



SPECIFICA	7S5700-48GP-4TF
Chipset	Broadcom high performance chip
Flash	16 Mb
Storage	256 Mb DDR
Port	48x 10/100/1000Mbps RJ45 ports Combo 4x 10G SFP ports 1x RJ45 Console port 1x USB 2.0, 1 Mini-usb Console port
Performance	Forwarding rate: 130.9 Mpps Bandwidth 176 Gbps Support 16K MAC address table depth
PoE	24x 10/100/1000Mbps port support PoE Max 300 W Single port max 46 W
Input	100 ÷ 240 Vac / 50 - 60 Hz
Dimensions (L×W×H)	440 × 320 × 44 mm



7PS2024G



SPECIFICA	7PS2024G
Chipset	Broadcom high performance chip
Flash	16 Mb
Storage	256 Mb DDR
Port	24x 10/100/1000Mbps RJ45 port 4x gigabit SFP fiber port 1x Console port
Performance	Forwarding mode: store and forward Switch Volume (Full-duplex): 56 Gbps Packet forwarding rate: 41.664 Mpps 8K MAC address table
PoE	24x 10/100/1000Mbps port support PoE Max 400 W Single port max 30 W
LEDs	28x Link/Act LEDs 24x POE LEDs 1x Power LEDs
Input	100 ÷ 240 Vac / 50 - 60 Hz
Dimensions (L×W×H)	440 × 320 × 44 mm

7S5700-48GP-4TF / 7PS2024G

- Support hardware watchdog, restore factory Settings, system and port LED
- Support global information, statistics, log information
- Support user management, alarm management, configuration management
- Support port rate, duplex, flow control, maximum frame length configuration
- Support port mirroring, port speed limit, port energy saving
- Support three management methods: local management, cloud management, mobile management
- Prevention in advance - Real-time map, fast fault location
- Cloud operation, maintenance, configuration, upgrade batch processing
- Multi-user, multi-dimensional authority, hierarchical control
- AI blessing, intelligent scheduling
- Business analysis and decision making - Open interface, customer business import
- Support for automatic identification, management and acquisition of information about the downlink device
- Support Layer 2 interface
- Support port redirection, flow rate limiting, QoS re-marking

7PS3016GS / 7PS3024GS



SPECIFICA	7PS3016GS	7PS3024GS
Network standard	IEEE 802.3i IEEE 802.3u IEEE 802.3x IEEE 802.3ab IEEE 802.3af IEEE 802.3at	
Port	16x 10/100/1000 Mbps RJ45 port 2x Gigabit SFP 1x Console	24x 10/100/1000 Mbps RJ45 port 2x Gigabit SFP 1x Console
PoE	16x 10/100/1000 Mbps RJ45 (port support PoE+) Max 150 W Single port max 46 W	24x 10/100/1000 Mbps RJ45 (port support PoE+) Max 250 W Single port max 46 W
LEDs	18x Link/Act LEDS 16x POE LEDS 1x SYS LED 1x Power LED	26x Link/Act LEDS 24x POE LEDS 1xSYS LED 1x Power LED
Performance	Forwarding mode: store and forward Bandwidth: 36 Gbps Packet forwarding rate: 23.8 Mpps 8K MAC address table	Forwarding mode: store and forward Bandwidth: 52 Gbps Packet forwarding rate: 23.8 Mpps 8K MAC address table
Lightning protection	6 KV	
Input	100 ÷ 240 Vac / 50 - 60 Hz	
Dimension (L×W×H)	440 x 180 x 44 mm	

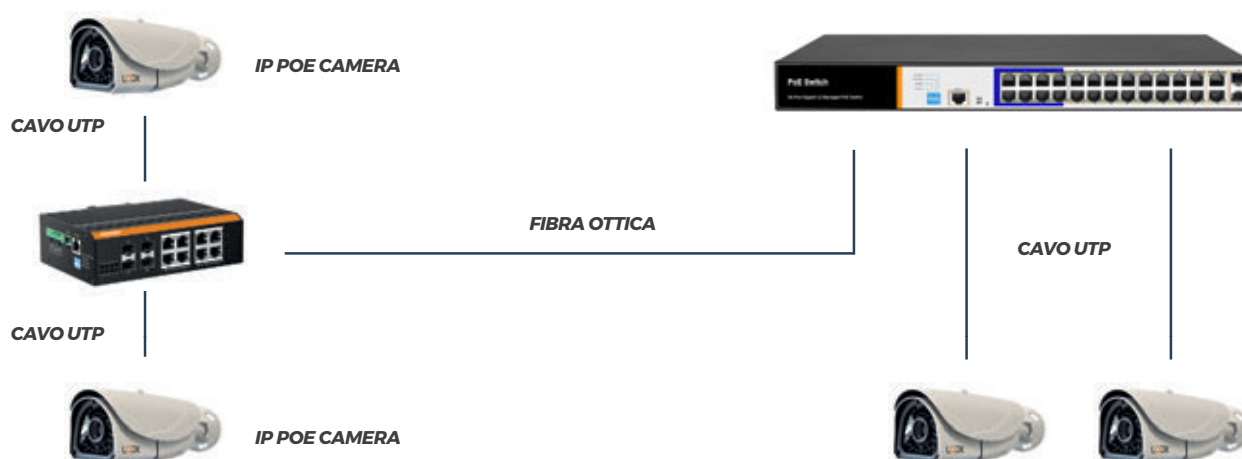
7PS3016GS / 7PS3024GS

- Support hardware watchdog, restore factory Settings, system and port LED
- Support global information, statistics, log information
- Support user management, alarm management, configuration management
- Support port rate, duplex, flow control, maximum frame length configuration
- Support port mirroring, port speed limit, port energy saving
- Support three management methods: local management, cloud management, mobile management
- Prevention in advance - Real-time map, fast fault location
- Cloud operation, maintenance, configuration, upgrade batch processing
- Multi-user, multi-dimensional authority, hierarchical control
- AI blessing, intelligent scheduling
- Business analysis and decision making - Open interface, customer business import
- Support for automatic identification, management and acquisition of information about the downlink device
- Support Layer 2 interface
- Support port redirection, flow rate limiting, QoS re-marking



7PS3016GS / 7PS3024GS

SCHEMA COLLEGAMENTO



7PS2010G



SPECIFICA	7PS2010G
Network standard	IEEE 802.3i IEEE 802.3u IEEE 802.3x IEEE 802.3ab IEEE 802.3af IEEE 802.3at
Port	8x 10/100/1000Mbps RJ45 port 2x Gigabit SFP fiber port 1x Console port
PoE	8x 10/100/1000 Mbps RJ45 port Max 150 W Single port max 46 W
LEDs	10x Link/Act LEDs 8x POE LEDs 1xPower LEDs 1 SYS LED
Performance	Forwarding mode: store and forward Switch Volume (Full-duplex): 20 Gbps Packet forwarding rate: 14.88 Mpps 8K MAC address table
Lightning protection	6 KV
Dimension (L×W×H)	285 × 180 × 44 mm

7PS2010G

- Support hardware watchdog, restore factory Settings, system and port LED
- Support global information, statistics, log information
- Support user management, alarm management, configuration management
- Support port rate, duplex, flow control, maximum frame length configuration
- Support port mirroring, port speed limit, port energy saving
- Support three management methods: local management, cloud management, mobile management
- Prevention in advance - Real-time map, fast fault location
- Cloud operation, maintenance, configuration, upgrade batch processing
- Multi-user, multi-dimensional authority, hierarchical control
- AI blessing, intelligent scheduling
- Business analysis and decision making - Open interface, customer business import
- Support for automatic identification, management and acquisition of information about the downlink device
- Support Layer 2 interface
- Support port redirection, flow rate limiting, QoS re-marking



7PS2010G

SCHEMA COLLEGAMENTO



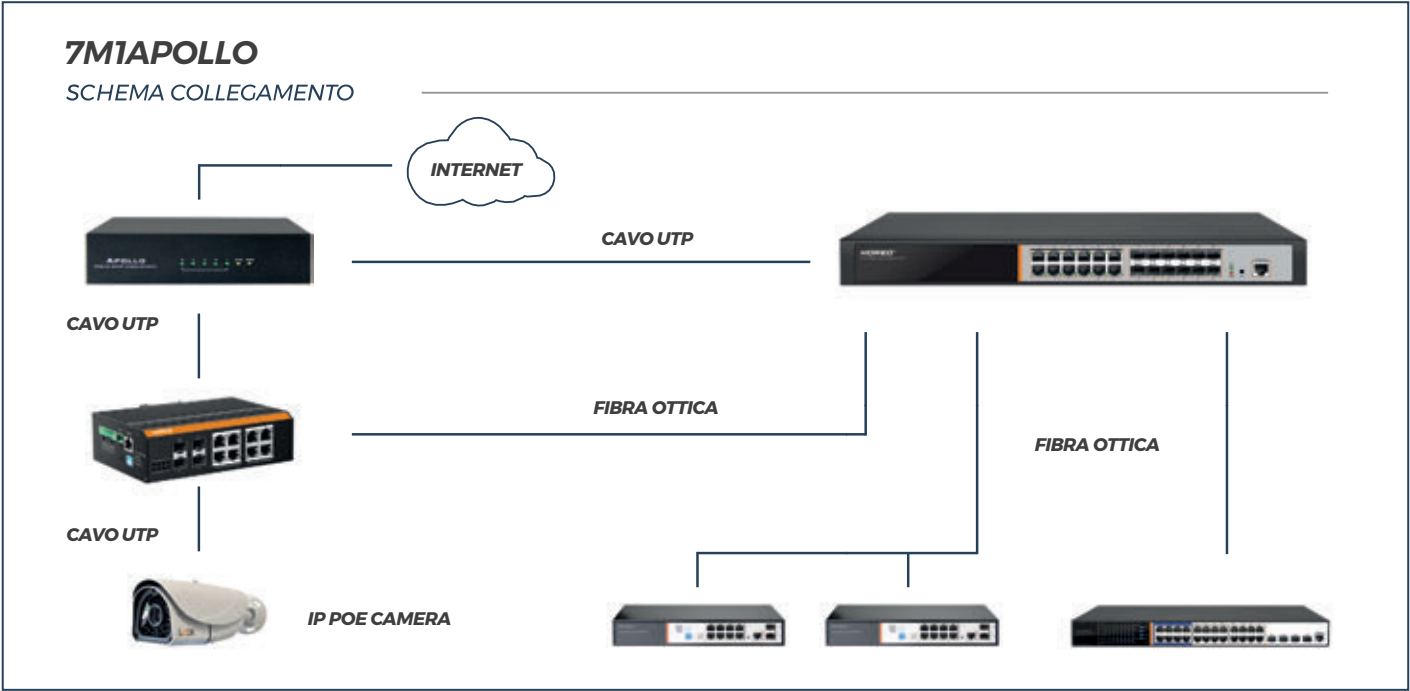
7M1APOLLO



SPECIFICA	7M1APOLLO
Chipset	Qualcomm high-performance chip
Flash	16 Mb
RAM	128 Mb DDR
Network interface	4x 10/100/1000 Mbps RJ45 port (port 1÷port 4) 1x 10/100/1000 Mbps RJ45 port (port 5 can be used as WAN) Standard Protocol: IEEE802.3i IEEE802.3u IEEE802.3x
LED Indicator	1x power indicator 1x system indicator 5x LINK/ACT indicator
Power supply	Input: 100 ÷ 240 Vac - 50 / 60 Hz Output: 12 V - 1 A Maximum power supply: 5.21 W Reset button (long press 5 ÷ 10 sec to restore factory default configuration)
Dimension (L×W×H) / Weight	159 x 104.5 x 37 mm / 0.6 Kg
Environmental specification	Operation temperature: 0° ÷ +40° C Storage temperature: -40° ÷ +70° C Operation humidity: 10 ÷ 90% (non-condensing)
Safety specification	CE/ROHS/FCC/CCC

7M1APOLLO

- The equipment is centralized on one platform, namely the APOLLO platform, which manages operations and maintenance in a unified manner.
- The device can be managed, operated, and maintained in three ways: mobile, PC, and local. 1000 Mbps full duplex
- Support for up to 128 devices
- Backplane bandwidth: 10 Gbps (Non-blocking)
- Support system alarms, log statistics
- Support automatic discovery of cameras for detailed information
- Support discovery and access to PC terminal information
- Support SNMP protocol, discover and manage devices which support SNMP protocol
- Cloud pass-through function. Realize data transmission of the connected device
- CE/ROHS/FCC/CCC





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