AVAILABLE MPX & CFO PRODUCTS

IP video networking and fibre optic real-time video transmission products 2023



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CFO Applications

Number of **video** channels + info from supported video D A C^c E M^{it} Number of **data** channels Number of **audio** channels Number of **contact closure** channels Number of **Ethernet** ports / **Ethernet Bridge** channels In-band configuration and management Small form-factor pluggable transceiver SFP One-way/uni-directional (Tx -> Rx)

Two-way/bi-directional (Tx <-> Rx)

V

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MCC SERIES D1/4CIF 25/30FPS ENTRY LEVEL CODECS

MCC series – 1 channel stand-alone video encoder and decoder

MCC series encoders are Onvir - compliant products.





MCE301: 1 × VHD 1080p 50/60fps or 1 × VD1/4CIF H.264, MJPEG MCC series is an entry level H.264 codec family for basic video transmission/ networking systems. Stand-alone units are designed for dry indoor environments and have the operational temperature range of -10...+50°C / 14...122°F.

MCE301 is only for encoding and MDC301 is only for decoding purposes.

All units support SD resolution composite video as minimum. For High Definition

video operation specific models support HDMI and SDI digital interfacing.

All models have dual channel duplex audio, two serial data ports and I/O ports for sensor/alarm functions. The network interface is **10/100/1000Base-TX** with **PoE PD** ability.

Device management is based on WebUI with a possibility of a live video stream viewing and PTZ control. MCC series is **ONVIF** and **PSIA** compatible.

MCE301 – 1 channel stand-alone HD/SD video encoder		
MCE301	PoE PD, 2 x audio, 2 x data, 2 x CC, HDMI & 3G/HD/SD-SDI support, 10/100/1000Base-Tx, quadruple streaming.	



MCD301 – 1	D301 – 1 channel stand-alone HD/SD video decoder		
MCD301	PoE PD, 2 x audio, 2 x data, 2 x CC, HDMI & 3G/HD/SD-SDI support, 10/100/1000Base-Tx, Quad viewing or multiple stream decoding in sequences.		
	Note! EoL July 2021. Limited stock for spares, contact Teleste sales.		





MCD301:



MES SERIES MANAGED ETHERNET SWITCHES

MES series – 6 and 10 port Ethernet switches





MES series is line of managed Ethernet switches for video networking applications. The electrical local Fast Ethernet ports support full wire speed. Switches have two Uplink ports to cater either FE or GigE level SFP transceiver modules.

Cabling installations are made easy with the MDI/MDIX, auto-polarity and automode supported 10/100Base-TX local ports. The Uplink interfaces, either one or two, support 100Base-FX or 1000Base-TX/FX SFPs (auto-recognition).

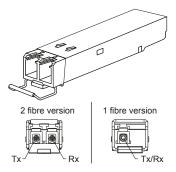
MES switches have support for features such as IGMP snooping, multiple VLAN features, QoS and security functions and a high network resiliency based on STP/RSTP/FRNT protocols. Versatile management is covered by WebUI (HTTP or HTTPS) and SNMP. In addition the MES series offers also a router version with L2/L3-switching capability.

Available in a robust and compact standalone units. Temperature hardened for -40...+70°C / -40...+158°F operation. Very low power consumption, no active cooling required. Superior EMC and mechanical characteristics to meet harsh industrial, transportation and rail environments.

Default installation support to DIN rails. A wall mount kit available as option (MAC007). Dual supply voltage input (redundant) for 24 VDC. Optional mains adapter CPS45x can be used for typical installations. An industrial graded PSU is available on request.

MES106/110 – Managed layer 2 ethernet switch, SFPs not included			
MES106	6-port managed L2 switch	Local FE (4), Uplink FE/GE (2)	
MES110 10-port managed L2 switch Local FE (8), Uplink FE/GE (2)			
MES210 – Managed layer 3 ethernet switch/router, SFPs not included			
MES210	10-port managed L3 switch/router	Local FE (8), Uplink FE/GE (2)	





2 x LC = dual fibre, 1 x LC = single fibre.

Fast Ethernet SFP transceivers for MES Ethernet switch			
MWF111A	MM 1310nm	12 dB , 2km / 1.2mi	
MWF214A	SM 1310nm	19 dB , 30km / 18mi	2 x LC
MWF218A	SM 1310nm	30 dB , 60km / 37mi	-40+85°C / -40+185°F
MWF228A	SM 1550nm	30 dB , 100km / 62mi	
MWF321A	MM BIDI Tx1310 / Rx1550nm	18 dB , 2km / 1.2mi	
MWF331A	MM BIDI Tx1550 / Rx1310nm	18 dB , 2km / 1.2mi	1 x LC
MWF424A	SM BIDI Tx1310 / Rx1550nm	18 dB , 20km / 12mi	-40+85ºC / -40+185ºF
MWF434A	SM BIDI Tx1550 / Rx1310nm	18 dB , 20km / 12mi	

Gigabit SFP transceivers for MES Ethernet switch			
MWG010C	Electrical 1000Base-T	100m / 328ft	RJ-45 female 0+70⁰C / +32+158⁰F
MWG111A	MM 1310nm	10 dB, 2km / 1.2mi	
MWG211A	SM 1310nm	10.5 dB, 10km / 6mi	2 x LC -40+85ºC / -40+185ºF
MWG224A	SM 1550nm	20 dB, 50km / 31mi	
MWG443A	SM BIDI Tx1310 / Rx1490nm	15 dB, 20km / 12mi	1 x LC -40+85ºC / -40+185ºF
MWG453A	SM BIDI Tx1490 / Rx1310nm	15 dB, 20km / 12mi	
MWG426A	SM BIDI Tx1310 / Rx1550nm	25 dB, 60km / 37mi	
MWG436A	SM BIDI Tx1550 / Rx1310nm	22 dB, 60km / 37mi	
MWG465A	SM BIDI Tx1510 / Rx1570nm	22 dB, 80km / 49mi	
MWG475A	SM BIDI Tx1570 / Rx1510nm	22 dB, 80km / 49mi	

SPECIAL INDUSTRY POE SWITCHES







XEW series - 10 port managed Power over Ethernet (Ultra PoE) switch

XEW610 is a managed layer-2 Gigabit Ethernet switch with Ultra PoE capability. The switch has 8 FE electrical local ports and 2 GbE uplink ports for 100 or 1000 Mbps SFP transceivers.

The total PoE power budget is 240 W. Any electrical port is capable of providing max 60 W, lower PoE levels are as with 802.3 af/at standards. XEW610 is temperature hardened for -40...+75°C / -40...+167°F operation. Housing protection class is IP30, DIN rail mounting is supported. Operational supply voltage is 52...57 VDC with dual input.

XEW610 - Managed layer-2 PoE switch, SFPs not included			
XE	W610	10-port managed L2 PoE switch	Local FE (8 x TX), Uplink FE or GbE (2 x SFP)

TNW series – EN50155 approved managed Power over Ethernet (PoE) switch

TNW553x is a managed layer-2 Gigabit Ethernet PoE switch designed for rail rolling stock systems. The switch has 9 FE ports and 3 GbE uplink ports, all ports are with M12 connectors.

The total power budget is 61,6 W. Max power on a single port is 30 W as with 802.3af/at standards.

TNW553x is EN50155 hardened for -40...+70°C / -40...+158°F operation. Housing protection class is IP67. Nominal supply voltages are 24 & 36 VDC (model L) and 48 to 110 VDC (model H).

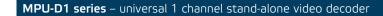
TNW553L/H:			
Local ports (10/100 TX)	Ε ^{TX} _{x9}	E ^{TX} _{X3}	Uplink ports (1000 TX)

TNW series – Managed rail-approved layer-2 PoE switch			
TNW553L	12-port managed L2 PoE switch, low voltage	Local FE (9 x TX), Uplink GbE (3 x TX)	
TNW553H	12-port managed L2 PoE switch, high voltage	Local FE (9 x TX), Uplink GbE (3 x TX)	

MPX-U SERIES FHD/HD/D1/4CIF 25/30FPS VIDEO DECODERS







The MPU-D1 stand-alone video decoder provides, depending on the model, simultaneous reception and decoding of one (1) full frame rate video channel on HDMI at 1080p resolution or analogue CVBS output at D1/4CIF resolution, over Gigabit Ethernet network.

MPC-D1 supports H.264, H.265, MPEG-4, MJPEG and MPEG-2 video compression. Bidirectional EIA-RS232/422/485 data channel (1) and contact closure channels (4/4) are available as factory option.

Temperature hardened operation (-34...+74°C / -29...165°F).

A +12 V supply voltage is provided by an optional CPS25x series power supply.

MPU-D1 – Electrical CAT5 network interface (RJ-45 connector)		
MPU-D1X-01 H.264/H.265/MPEG-2/MPEG-4/MJPEG, HDMI		
MPU-D1X-01-NTSC	H.264/H.265/MPEG-2/MPEG-4/MJPEG, HDMI/NTSC	89 x 171 x 215mm
MPU-D1X-01-PAL	H.264/H.265/MPEG-2/MPEG-4/MJPEG, HDMI/PAL	2131111

MSR419 Installation frame for MPH400 devices.



MPS12x Power supply for MSR419 installation frame.



CVU014 Ventilation frame.



CPS25x power supply.

MPX ACCESSORIES

Accessories for MPH, MPC, MPX, MES and MCC units

The perfect combination of accessories makes installation easier for you. Teleste offers a range of accessories that perfectly complement one to another. This gives you the opportunity to assemble systems that perfectly reflect your individual needs.

Rack installation accessories (for MPH400 series)			
MSR416	19″ 3U installation frame, front loading, PSU at rear	For 16 x MPH400 series modules	
MPS120		230VAC / 120W, without mains cable	
MPS121	Power supply for MSR416	230VAC / 120W, EU mains cable (CPC521)	
MPS122		230VAC / 120W, UK mains cable (CPC522)	
MPS123		115VAC / 120W, US mains cable (CPC523)	
CPC521	Lockable IEC power cord for MPS12x power supply	EU plug, 2m	
CPC522		UK plug, 2m	
CPC523	- F FF /	US plug, 2m	
MCP401	Cover plate for MCD416	To cover one unit wide slot	
MCP404	Cover plate for MSR416	To cover four unit wide slot	
CVU014	Passive ventilation frame	19" 1U, cable management shelf	

Stand-alone installation accessories (for MPH, MPC, MPX, MCC & MES series)		
MAC007	Wall mounting kit for MES rear assembly	includes mounting plate only
MAC008	Wall mount for CPS series mains adapters	includes wall bracket only
MRC0124*	Rack shelf for two MCC104 units	10" 10L roor oppolicables included
MRC0122	Rack shelf for two MCC101 or MCC201 units	19" 1RU, rear panel cables included
MRC0122H	Rack shelf for two MCC101 or MCC201 units	19" 1RU, without cables
CPS250		230VAC 12V/2.1A**, without mains cable
CPS251	12VDC power supply for	230VAC 12V/2.1A**, EU mains cable (CPC521)
CPS252	MPC/MPX/MPH units	230VAC 12V/2.1A**, UK mains cable (CPC522)
CPS253		115VAC 12V/2.1A**, US mains cable (CPC523)
CPS450		115/230VAC 24VDC/1A*** without mains cable
CPS451	24VDC power supply for	230VAC 24V/1A***, EU mains cable (CPC521)
CPS452	MES ethernet switches	230VAC 24V/1A***, UK mains cable (CPC522)
CPS453		115VAC 24V/1A***, US mains cable (CPC523)

* Note! These items are in rampdown mode, EoL statement to follow in 2022

** +74°C / +165°F

*** +60°C / +140°F

MPX ACCESSORIES





SFP transceivers for MPC/MP	K series videc	encoders and	decoders
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The SFP (small form-factor pluggable) modules listed below can be used in conjunction with the MPC and MPX configurations shown in pages 7...13. SFP wideband optics (1310 & 1550 nm) are feasible for temperature hardened operation (-40...+85°C / -40...+185°F). SFP transceivers can be ordered separately*.

SFP modules for Fast Ethernet (Suitable for MPC/MPX series, also MPC-SF FE switches)				
MSF111A	FS1	MM 1310nm	12 dB, 2km / 1.2mi	
MSF214A	FS2	SM 1310nm	19 dB, 30km / 18mi	2 x LC
MSF218A	FL2	SM 1310nm	30 dB, 60km / 37mi	-40+85°C /
MSF224A	FS3	SM 1550nm	19 dB, 20km / 12mi	-40+185ºF
MSF228A	FL3	SM 1550nm	30 dB, 100km / 62mi	
MSF425A	FSA	SM BIDI Tx1310 / Rx1550nm	23 dB, 25km / 15mi	
MSF435A	FSB	SM BIDI Tx1550 / Rx1310nm	23 dB, 25km / 15mi	1 x LC -40+85⁰C /
MSF427A	FLA	SM BIDI Tx1310 / Rx1550nm	29 dB, 60km / 37mi	-40+185°F
MSF437A	FLB	SM BIDI Tx1550 / Rx1310nm	29 dB, 60km / 37mi	

* Alias code (column 2) is used for option class definition when creating MPX configuration

MPX ACCESSORIES





SFP transceivers for MPH series video encoders

The SFP (small form-factor pluggable) modules listed below can be used in conjunction with the MPH encoders. Most of the SFP models are feasible for temperature hardened operation (-40...+85°C / -40...+185°F). SFP transceivers can be ordered separately.

SFP modules for Fast Ethernet (Suitable only for MPH100/400 series)			
MIF111D	MM 1310nm, SGMII	11 dB, 2km / 1.2mi	2 x LC -10+70ºC / +14+158ºF
MIF111E	MM 1310nm, SGMII	11 dB, 2km / 1.2mi	2 x LC
MIF214E	SM 1310nm, SGMII	16 dB, 30km / 18mi *	-35+75ºC / -31+167ºF

Note! This range of Fast Ethernet SFPs are compatible only for MPH100/400 series, due to specific internal SGMII interface.

SFP MPH100/200/400 1000Base-Tx/Fx	SFP modules	for Gigabit Ethernet (S
	MSG010C	CAT5 1000Base-T
\sim	MSG020C	CAT5 10/100/1000B
	MSG101B	MM 850nm
	MSG111A	MM 1310nm
	MSG211A	SM 1310nm
	MSG214A	SM 1310nm
2 fibre version 1 fibre version	MSG222A	SM 1550nm
	MSG224A	SM 1550nm
	MSG226A	SM 1550nm
2 x LC = dual fibre,	MSG228B	SM 1550nm
1 x LC = single fibre.	MSG321A	MM BD Tx1310 / Rx1
	MSG331A	MM BD Tx1550 / Rx1
	MSG422A	SM BD Tx1310 / Rx1
	MSG432A	SM BD Tx1550 / Rx1

SFP modules for Gigabit Ethernet (Suitable for MPH100/200/400 series)			
MSG010C	CAT5 1000Base-T	100m / 328ft	RJ-45 female
MSG020C	CAT5 10/100/1000Base-T		0+70ºC / +32+158ºF
MSG101B	MM 850nm	8.5 dB, 1km / 0.6mi	
MSG111A	MM 1310nm	10 dB, 2km / 1.2mi *	
MSG211A	SM 1310nm	10.5 dB, 10km / 6mi	
MSG214A	SM 1310nm	20 dB, 30km / 18mi	2 x LC
MSG222A	SM 1550nm	12 dB, 30km / 18mi	-40+85°C / -40+185°F
MSG224A	SM 1550nm	20 dB, 50km / 31mi	
MSG226A	SM 1550nm	24 dB, 70km / 43mi	
MSG228B	SM 1550nm	30 dB, 110km / 68mi	
MSG321A	MM BD Tx1310 / Rx1550nm	10 dB, 550m / 1804ft	
MSG331A	MM BD Tx1550 / Rx1310nm	10 dB, 550m / 1804ft	
MSG422A	SM BD Tx1310 / Rx1550nm	12 dB, 10km / 6mi	
MSG432A	SM BD Tx1550 / Rx1310nm	12 dB, 10km / 6mi	1 x LC
MSG424A	SM BD Tx1310 / Rx1550nm	20 dB, 40km / 24mi	-40+85°C / -40+185°F
MSG434A	SM BD Tx1550 / Rx1310nm	20 dB, 40km / 24mi	
MSG443A	SM BD Tx1310 / Rx1490nm	15 dB, 20km / 12mi	
MSG453A	SM BD Tx1490 / Rx1310nm	15 dB, 20km / 12mi	
MSG422A SC	SM BD Tx1310 / Rx1550nm	12 dB, 10km / 6mi	1 x SC/PC
MSG432A SC	SM BD Tx1550 / Rx1310nm	12 dB, 10km / 6mi	-40+85ºC / -40+185ºF

* 1km / 0.6mi for 50/125µm fibre

CFO WITH FIXED OPTICS

CFO First Mile Basic – 1-channel video multiplexers with fixed optics

CFO First Mile Basic product range provides cost effective fibre optic video transmission. The CFO First Mile Basic product range consist of 1-channel video multiplexers either for "video only" type operation or operation supporting data and contact closure.

The product range includes mini size stand-alone video transmitter, cards for rack mount installation, module adapters for stand-alone installation and all other necessary accessories.

Temperature hardened operation (-34...+74°C / -29...165°F).

CFO First Mile basic products take advantage of the most appropriate technology for the application, with the success factors being reliability, performance and ease of installation.

CFO100 – 1 channel video only link for fixed camera applications

CFO100 series provides uncompressed digital transmission of one CVBS video channel over one **multimode** (1310nm) fibre for up to 6.5km. Available in stand-alone small size transmitter unit and 5HP wide rack mount transmitter/receiver card formats. CPT101 can be operate with 12 VDC and 24 VAC. 1/3 x ST optical connector.

CPT101	1-channel small size video transmitter (DIN mounting kit optional, see CIK001)	stand-alone unit
CRT103	Triple channel video transmitter	
CRR101	1-channel video receiver	5HP wide rack mount card
CRR103	Triple channel video receiver	

CFO331 – 1 channel video link for PTZ camera applications

CFO331 series provides uncompressed digital transmission of one CVBS video channel with bidirectional data (1) and contact closure (1) channels over one **multimode** (1310/1550nm) fibre for up to 5km. Units configuration is done with DIP-switches. Available in stand-alone compact size transmitter unit and 5HP wide rack mount receiver card formats. CPT331 can be operate with 12 VDC and 24 VAC. 1 x SC optical connector.

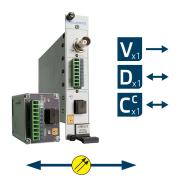
CPT331	1-channel compact size video transmitter (DIN mounting kit optional, see CIK001)	stand-alone unit
CRR331	1-channel video receiver	5HP wide rack mount card

CFO521 – 1 channel video link for PTZ camera applications

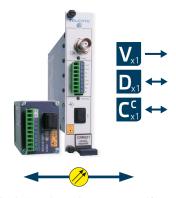
CFO521 series provides uncompressed digital transmission of one CVBS video channel with bi-directional data (1) and contact closure (1) channels over one **single-mode** (1310/1550nm) fibre for up to 40km. Units configuration is done with DIP-switches. Available in stand-alone compact size transmitter unit and 5HP wide rack mount receiver card formats. CPT521 can be operate with 12 VDC and 24 VAC. 1 x SC optical connector.

CPT521	1-channel compact size video transmitter (DIN mounting kit optional, see CIK001)	stand-alone unit
CRR521	1-channel video receiver	5HP wide rack mount card





1310/1550nm MMF up to 5km



1310/1550nm SMF up to 40km

CFO First Mile SFP – 1-ch, 4-ch and 8-ch video multiplexers with selectable SFP optics

CFO First Mile SFP product range provides cost effective fibre optic video transmission. The range consist of 1-ch, 4-ch and 8-ch video multiplexers either for "video only" type operation or operation supporting data, audio, contact closure and Ethernet. Units configuration is done by DIP switches. Temperature hardened operation (-34...+74°C / -29...165°F). The fibre optics are based on pluggable SFP transceiver modules.

For all available SFP models please refer to our selection of MSG series transceivers in page 14.

CFO410 - 4 channel video only link for fixed camera application

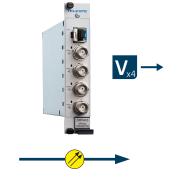
CFO410 series provides uncompressed and real-time digital transmission of four (4) composite video channels (2-channel for Y/C). Units are 5HP wide rack mount cards. CMT models are including a standalone mechanics CMA015 for the transmitter card. For installation accessories, please see page 16.

CRT410	4-channel video transmitter without optics	SFP to be ordered
CRR410	4-channel video receiver without optics	separately

CFO810 – 8 channel video only link for fixed camera applications

CFO810 series provides uncompressed and real-time digital transmission of eight (8) composite video channels (4-channel for Y/C). Units are 10HP wide rack mount cards. CMT models are including a standalone mechanics CMA025 for the transmitter card. For installation accessories, please see page 16.

CRT810	8-channel video transmitter without optics	SFP to be ordered
CRR810	8-channel video receiver without optics	separately



S = 1310nm MMF up to 2km **M** = 1310/1490nm SMF up to 20km

L = 1310/1550nm SMF up to 40km



S = 1310nm MMF up to 2km **M** = 1310/1490nm SMF up to 20km **L** = 1310/1550nm SMF up to 40km

(Please see other fibre optic SFP transceiver options in page 14.)

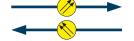
S = 1310/1310nm MMF up to 2km



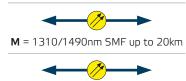


L = 1310/1550nm SMF up to 40km





S = 1310/1310nm MMF up to 2km



L = 1310/1550nm SMF up to 40km

CFO420 – 4 channel video link for PTZ camera application

CFO420 series provides uncompressed and real-time digital transmission of four (4) composite video channels (2-channel for Y/C) with one (1) configurable bi-directional RS-data channel. Units are 10HP wide rack mount cards. CMT models are including a standalone mechanics CMA025 for the transmitter card. For installation accessories, please see page 16.

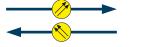
CRT420	4-channel video transmitter without optics	SFP to be ordered
CRR420	4-channel video receiver without optics	separately

CFO820 – 8 channel video link for PTZ camera applications

CFO820 series provides uncompressed and real-time digital transmission of eight (8) composite video channels (4-channel for Y/C) with one (1) configurable bi-directional RS-data channel. Units are 10HP wide rack mount cards. CMT models are including a standalone mechanics CMA025 for the transmitter card. For installation accessories, please see page 16.

CRT820	8-channel video transmitter without optics	SFP to be ordered
CRR820	8-channel video receiver without optics	separately

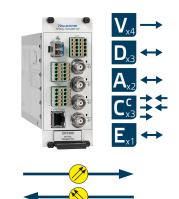




S = 1310/1310nm MMF up to 2km







S = 1310/1310nm MMF up to 2km





L = 1310/1550nm SMF up to 40km

CFO160 series provides uncompressed and real-time digital transmission of one (1) CVBS video channel with three (3) configurable bi-directional RS-data channels, two (2) audio, contact closures (3 out/2 in) and one Fast Ethernet channel over optical fibre. Ethernet Bridge interface is 10/100Base-Tx, full 100Mbps thruput. Units are 10HP wide rack mount cards. CMT models are including a standalone mechanics CMA025 for the transmitter card. For installation accessories, please see page 16.

CRT160	1-channel video transmitter without optics	SFP to be ordered
CRR160	1-channel video receiver without optics	separately

CFO460 – 4 channel video link for extended PTZ camera applications

CFO460 series provides uncompressed and real-time digital transmission of four (4) CVBS video channel (2-ch for Y/C) with three (3) configurable bi-directional RS-data channels, two (2) audio, contact closures (3 out/2 in) and one Fast Ethernet channel over optical fibre. Ethernet Bridge interface is 10/100Base-Tx, full 100Mbps thruput. Units are 10HP wide rack mount cards. CMT models are including a standalone mechanics CMA025 for the transmitter card. For installation accessories, please see page 16.

CRT460	1-channel video transmitter without optics	SFP to be ordered
CRR460	1-channel video receiver without optics	separately



CRG101 media converter.

CRG100/101 – Single channel media converters

CRG100 and CRG101 media converters are designed to convert Gigabit level copper/ electrical Ethernet for fibre optic transmission, or vice versa. These units are compatible with MSG series SFP transceivers to meet various fibre cabling requirements.

The unmanaged CRG100 model supports 1000Base-T operation only. The managed CRG101 model with WebUI and SNMP support is compatible with 10/100/1000Base-T interface and has a dual speed support on the SFP port (100/1000Base-F). Standalone installation is available with CMA015 module adapter. For installation accessories, please see page 16.

	Managed media converter,	SFP to be ordered separately	5HP wide rack
	10/100/1000Base-TX	from the MSF or MSG series	mount card

SFP TRANSCEIVER MODULES FOR CFO

SFP transceivers for CFO SFP series video links

The SFP (small form-factor pluggable) transceiver modules listed below can be used in conjunction with the **CFO First Mile SFP** video modems.

For most typical applications the desired product configurations or combinations are available as readydefined ordering codes. For spare part use or alternative selfmade combinations the SFPs are also available as individual product items as shown below. SFP transceivers can be ordered separately.

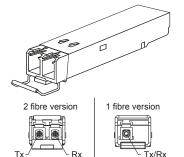
Most of the SFP models are feasible for temperature hardened operation $(-40...+85^{\circ}C / -40...+185^{\circ}F)$.

SFP modules for Gigabit Ethernet (Suitable for CFO SFP series)				
MSG101B	MM 850nm	8.5 dB, 1km / 0.6mi	2 x LC -40+85ºC / -40+185ºF	
MSG111A	MM 1310nm	10 dB, 2km / 1.2mi *		
MSG211A	SM 1310nm	10.5 dB, 10km / 6mi		
MSG214A	SM 1310nm	20 dB, 30km / 18mi		
MSG222A	SM 1550nm	12 dB, 30km / 18mi		
MSG224A	SM 1550nm	20 dB, 50km / 31mi		
MSG226A	SM 1550nm	24 dB, 70km / 43mi		
MSG228B	SM 1550nm	30 dB, 110km / 68mi		
MSG321A	MM BD Tx1310 / Rx1550nm	10 dB, 550m / 1804ft		
MSG331A	MM BD Tx1550 / Rx1310nm	10 dB, 550m / 1804ft		
MSG422A	SM BD Tx1310 / Rx1550nm	12 dB, 10km / 6mi		
MSG432A	SM BD Tx1550 / Rx1310nm	12 dB, 10km / 6mi	1 x LC	
MSG424A	SM BD Tx1310 / Rx1550nm	20 dB, 40km / 24mi	-40+85ºC / -40+185ºF	
MSG434A	SM BD Tx1550 / Rx1310nm	20 dB, 40km / 24mi		
MSG443A	SM BD Tx1310 / Rx1490nm	15 dB, 20km / 12mi		
MSG453A	SM BD Tx1490 / Rx1310nm	15 dB, 20km / 12mi		
MSG422A SC	SM BD Tx1310 / Rx1550nm	12 dB, 10km / 6mi	1 x SC/PC	
MSG432A SC	SM BD Tx1550 / Rx1310nm	12 dB, 10km / 6mi	-40+85°C / -40+185°F	

* 1km / 0.6mi for 50/125µm fibre.

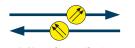






2 x LC = dual fibre, 1 x LC = single fibre.

Single fibre (1 x LC), bidi



Dual fibre (2 x LC), 2-way Available SFP transceiver types for Gigabit Ethernet.

CFO ACCESSORIES

CFO accessories

The perfect combination of accessories makes installation easier for you. Teleste offers a range of accessories that perfectly complement one to another. This gives you the opportunity to assemble systems that perfectly reflect your individual needs.

Rack installation accessories

The CFO family of products all utilise the same rack installation mechanics, installation frame and power supply (PSU) systems which allow mixing of single channel, multichannel, singlemode and multimode fibre applications in the same system. This provides a very flexible and reliable approach to fulfill all of your optical fibre video transmission requirements.

Installation frame, 19″ 3U	front loading, PSU at rear	16 x 5HP CFO modules and	
	rear loading, PSU at front	1 x 4HP control / alarm card	
Power supply for CSR216/316, without power cord		230 VAC & 115 VAC (selectable), 130 W	
Angled power cord for CPS384		EU plug, 2m	
		UK plug, 2m	
		US plug, 2m	
CSR216 installation frame package, single power supply		CSR216, CPS384, CCP004, CCP042, CPC221	
		CSR216, CPS384, CCP004, CCP042, CPC222	
CSR216 installation frame package, dual power supply		CSR216, 2 x CPS384, CCP004, 2 x CPC221	
		CSR216, 2 x CPS384, CCP004, 2 x CPC222	
Power supply for CSR420, without power cord		230 VAC & 115 VAC (selectable), 120 W	
Din rail kit for CSR rack, MPS120 power supply		Power supply depth 40mm	
mount		Power supply depth 68mm	
		EU plug, 2m	
IEC lockable power cord for MPS120 power supply unit		UK plug, 2m	
		US plug, 2m	
		Bundle of 5 pcs	
5HP wide cover pla	te (1 slot)		
20HP wide cover p	late (4 slots)	Bundle of 3 pcs	
		1 pcs	
Ventilation frame /	cable management shelf	1U 19″	
Installation shelf fo screws included	r 2 x CMA0x5 adapters, CMA	2U 19″	
	 19" 3U Power supply for C without power cord power supply CSR216 installation single power supply CSR216 installation dual power supply Power supply for C without power cord Din rail kit for CSR in mount IEC lockable power supply unit dHP wide cover plates and the cover pl	19" 3Urear loading, PSU at frontPower supply for CSR216/316, without power cordAngled power cord for CPS384 power supplyAngled power cord for CPS384 power supplyCSS216 installation frame package, single power supplyCSR216 installation frame package, dual power supplyRear Package, package, supplyPower supply for CSR420, without power cordRear Package, power supplyDin rail kit for CSR rack, MPS120 power supply mountRear Package, power supplyLEC lockable power cord for MPS120 power supply unitRear Package, power supply4HP wide cover plate (1 alarm/controller card slot)SHP wide cover plate (4 slots)20HP wide cover plate (1 CPS384/390 slot)Selemanagement shelfVentilation frame / cable management shelfInstallation shelf for 2 x CMA0x5 adapters, CMA	



CSR216 Installation frame with CPS384 power supply and CCP042 cover plate.



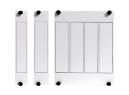
CPS384 Power supply unit.



MPS120 power supply for CSR420 installation frame.



CVU014 Ventilation frame.



CCP004, 005 and 020 cover plates.

CFO ACCESSORIES



CMA015, CMA025 & CMA035 module adapters.



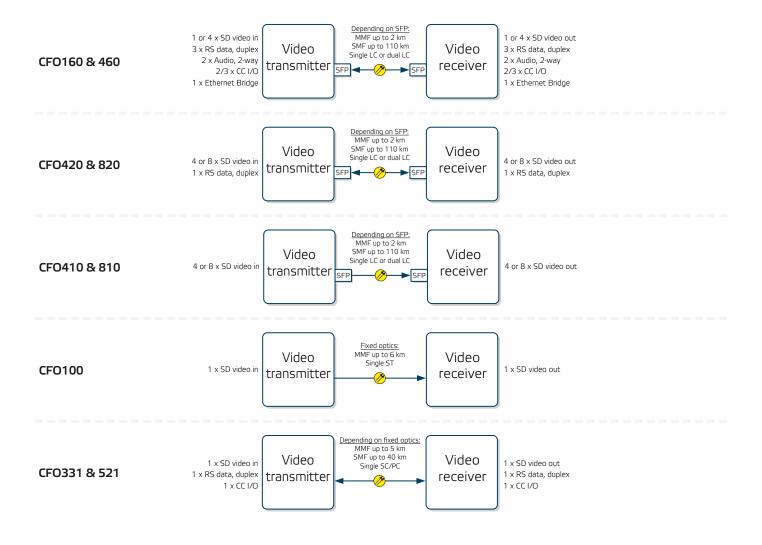
CIK002 rear mounting plate.

Stand-alone installation accessories

The CFO family of products all utilise the same rack installation mechanics, installation frame and power supply systems which allow mixing of one channel, multichannel, single-mode and multimode fibre applications in the same system. This provides a very flexible and reliable approach to fulfill all of your optical fibre video transmission requirements.

CMA015	Module adapter for stand-alone wall mounting	For 1 x 5HP wide card
CMA025		For 1 x 10HP wide card (or 2 x 5HP)
CMA035		For 1 x 15HP wide card (or 3 x 5HP)
CIK001	DIN rail mounting kit for CPT101/321/331 /521/541	Including angled-BNC adapter for video
CIK002	Rear mounting kit	For CMA025/035 module adapters
CPS251	12V mains adapter for CMA, EUR	230 VAC – 12 VDC / 2.1A
CPS252	12V mains adapter for CMA, UK	230 VAC – 12 VDC / 2.1A
CPS253	12V mains adapter for CMA, USA	115 VAC – 12 VDC / 2.1A
MAC008	Wall mount for CPS series mains adapters	Includes wall bracket only

CFO APPLICATIONS



NOTES



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P5P Available MPX & CFO products, July 2023

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