

CS-240-2

Dual Fast Media Converter

Description:

The CS-240-2 is Dual Fast Ethernet Fiber Converters designed to be media interfaces between 10/100Base-TX Ethernet copper pairs cable and 100Base-FX fiber optics cable. The version with POF (plastic optical fiber) is available. The CS-240-W31 (55) utilizes 1310 nm/1550 nm Bi-Di transceivers to provide TX and RX over a single fiber cable for distances of 20 km.

The CS-240-2 is double media converter intended for SM and MM fiber and is located in stand alone box.

The FTTH version features the optical interface hidden inside the box, protected against unauthorized handling. For optical cable termination the splice of pigtailed or field installation connectors might be used. Specially the W31 – Bi-Di type is designed to operate over one fiber in FTTH – P2P (Fiber To The Home – Point to Point) installations, when TX transmits at 1310 nm and RX receives at 1550 nm wavelengths.

Power supply of converter is ensured via the 5-12 V power AC/DC adapter .

The LED indicators signal the power status of the converter, the Ethernet port and the FX port activity.



CS-240-2-W31-SC-20-DC

Features:

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, and IEEE 802.3z 100Base-FX
- Stand alone Double media converter
- POF (plastic optical fiber) or OF (optical fiber)
- UTP port: autonegotiation function
MDI/MDIX Auto Cross function
Duplex transmission over: pair of fibers or
single fiber (Bi-Di type)
- Single mode and multimode application
- FTTH version available
- External power supply 5-12 V DC

Specifications:

Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX	
Protocol	CSMA/CD	
Interface	RJ-45 connector, using UTP 100 Ohm cable POF: OptoLock interface SC (Bi-Di), LC (duplex) connector	
Wavelength	POF: 650 nm MM: 1300 nm SM: 1310 nm	PMMA fiber: 980/1000 μm fiber: 62.5/125 μm or 50/125 μm fiber: 9/125 μm Bi-Di: TX & RX combined in one fiber: W31: TX=1310 nm; W55: TX=1550 nm
Maximum Segment Length	UTP cable 10/100Base-T(X): POF, plastic optical fiber: MM fiber optic pair, full duplex: SM fiber optic pair, full duplex:	100 m 50 m 2 km 30 (20) km
Environmental: Temperature Humidity	0° C to 70 °C (Operating), other on request 10% to 90% (Non-condensing)	
External Power Supply	Input rating: 100 to 230 V AC, 50-60 Hz Output rating: 5-12 V DC, 400 mA	
Dimensions (L x W x H)	120 x 90 x 25 mm	

Ordering Code:

SM, MM and POF converters

CS-240-2		XXX	XX	XX	XXX
POF	Plastic optical fiber		Interface:	Distance:	Packaging, power supply
M30	MM 1300 nm		POF:	XX for POF	DC Stand alone box, 5-12 V DC
S31	SM 1310 nm		OL2 OptoLock 2.2 mm	02 2 km (MM)	FTTH FTTH box, 5-12 V DC
W31²⁾	Bi-Di 1310 TX		GOF:	30¹⁾ 30 km	
W55²⁾	Bi-Di 1550 TX		SC²⁾ SC/PC		
			LC²⁾ LC/PC		

Note: 1) WDM: limited distance: 20 km
2) SC – Bi-Di interface only
LC – standard duplex interface



CS-240-2-W31-SC-20-DC



CS-240-1-W31-SC-20-FTTH