

CS-100C

Mini size 100M media converter USB powered

Description:

The CS-100C series are small size Fast Ethernet - fiber converters designed to be media interfaces between 10/100Base-TX Ethernet copper pairs cable and 100Base-FX fiber optics cable. They feature a RJ-45 connector, and a single or pair of fiber optic connectors. The Fast Fiber Converters give you the freedom to extend your 10/100 Mbps cabling distance by allowing connectivity 2 kilometers for multimode optical fiber and 30 up to 50 kilometers using singlemode optical fiber. LED indicators signal the power status of the converter, the Ethernet port and the FX port activity. The power supply of converters is ensured via USB Micro-B port.



CS-100C-S31-SC-20-USB

Features:

- 100BASE-FX Fiber to 10/100BASE-T(X) UTP Converter
- Duplex or Bi-Di SC fiber optic interface
- Full duplex / duplex adaptive transmission
- Power supply: USB Micro-B
- Single mode and multimode application

Specification:

Standards	IEEE 802.3 10Base-T ¹ , 802.3u 100Base-TX and 100Base-FX
Frame Size	10 240 Bytes max frame size
Mode	Converter Mode ²
Fiber Cable	Multimode: 50/125, 62.5/125 μm Single mode: 9/125 μm
Fiber Connector	Duplex / single SC
UTP Connector	RJ-45
LED Display	POW, LINK, FPD, TPX, 100
Dimensions	45 x 57 x 22 mm
Weight	100 g
DC Power Input Connector	USB 2.0, USB Micro-B
Output of AC/DC Power Adaptor	0.5 A @ 5 V DC
Input of AC/DC Power Adaptor	100-120 V AC / 210-230 V AC The plug type shall be specified in customer's PO.
MTBF	More than 50 000 hours, in accordance with the standard of telecom operation
Temperature Operation	0 to +50 °C
Temperature Storage	-40 to +85 °C

¹ 10 Mbps works only with „Store and Forward Switch Mode“

² By default CS-100C works in „Converter mode“, „Store and Forward Switch Mode“ is for request.

Humidity	5 to 95% not condensing
RoHS compliant	

Ordering Code:

CS-100C	-	XXX	-	SC	-	XX	-	XXX
XXX: wavelength M30 MM 1300 nm S31 SM 1310 nm S55 SM 1550 nm B31/55³ Bi-Di 1310 TX B55/31³ Bi-Di 1550 TX				SC connector¹	XX: distance 02 2 km (MM) 20 20 km / 1310 nm 40 40 km / 1310 nm 60 60 km / 1310 nm 80 80 km / 1550 nm 100 100 km / 1550 nm 120 120 km / 1550 nm		XXX: power supply USB² USB cable DC² AC/DC adapter included	

Note: 1) other on request

2) USB cable included, AC/DC power adaptor on request

3) Bi-Di transceivers available distance see table below

Duplex transceiver parameters:

Rate	LD	Wavelength (nm)	Average output optical power (dBm)	Sensitivity (dBm)	Transmission distance (km)
155 Mbps	FP	1310	≥-12	≤-36	20
155 Mbps	FP	1310	≥-10	≤-37	40
155 Mbps	FP	1310	≥-6	≤-38	60
155 Mbps	DFB	1550	≥-8	≤-38	80
155 Mbps	DFB	1550	≥-3	≤-38	100
155 Mbps	DFB	1550	≥ 0	≤-39	120

Bi-Di transceiver parameters:

Rate	LD	Wavelength (nm)	Average output optical power (dBm)	Sensitivity (dBm)	Transmission distance (km)
155 Mbps	FP	1310	≥-12	≤-35	20
155 Mbps	FP	1550	≥-12		
155 Mbps	FP	1310	≥-10	≤-35	40
155 Mbps	DFB	1550	≥-10		
155 Mbps	FP	1310	≥-6	≤-35	60
155 Mbps	DFB	1550	≥ -10		

LED Indicator:

LED	Color	Function	LED	Color	Function
POW	Green	ON: Power is available	TPX	Green	ON: full duplex OFF: half duplex Flash: half & collision
LINK	Green	ON: TP/FX link OK OFF: link fail Flash: link OK & activity	100	Green	ON: 100M OFF: 10M
FPD	Green	ON: fiber signal detected OFF: fiber unplugged OFF: fiber unplugged			