

CS-100C-M30

Mini-size 100M media converter, 1300nm

Description:

CS-100C-M30 series are compact Fast Ethernet to fiber media converters designed to bridge 10/100Base-TX Ethernet copper cabling and 100Base-FX fiber optic cabling. These converters are equipped with an RJ-45 connector for Ethernet and a pair of SC fiber optic connectors for optical transmission. They enable the extension of 10/100 Mbps networks over multimode fiber optics, supporting distances up to 2 kilometers. LED indicators provide clear status updates for power, Ethernet port activity, and fiber optic port activity.

CS-100C-M30 converters are powered via 5V DC input, but for greater flexibility. To facilitate USB power supply is optionally available to use USB-to-DC conversion adapters and next accessories.



Features:

- 100BASE-FX Fiber to 10/100BASE-T(X) UTP Converter
- Duplex SC fiber optic interface
- Full duplex / duplex adaptive transmission
- Store and Forward Switch Mode
- Power supply: 5V DC (USB reduction is possible)
- Multimode application

Specification:

<i>Standards</i>	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX
<i>Protocol</i>	10BASE-T, 100BASE-TX, 100BASE-FX
<i>Mode</i>	Store and Forward Switch Mode ¹
<i>Packet transmission</i>	10240 Bytes
<i>Wavelength</i>	1300 nm
<i>Transmission speed</i>	100 Mbps
<i>Distance</i>	2 km
<i>Optical fiber</i>	Multimode: 50/125, 62.5/125 µm
<i>Fiber Connector</i>	Duplex SC
<i>UTP Connector</i>	RJ-45 (EIA/TIA 568A/B, Cat5 or higher grade)
<i>LED Display</i>	PWR, TP, FX
<i>Dimensions</i>	62.3 x 42.3 x 22 mm
<i>Weight</i>	100 g
<i>Power Input Connector</i>	DC, 5.5/2.1 mm jack socket (USB reduction is possible)
<i>Power consumption</i>	0.7 to 1.5 W
<i>MTBF</i>	More than 50 000 hours, qualified for telecom operation
<i>Temperature Operation</i>	Standard: -10 °C to +55 °C, Industrial: -40 to +80 °C
<i>Temperature Storage</i>	-40 °C to +85 °C
<i>Humidity</i>	5 to 95 % not condensing
<i>RoHS compliant</i>	

Note: 1) By default CS-100C works in „Store and Forward Switch Mode“, „Converter mode“ is for request.

Ordering Code:

CS-100C		-	M30		-	SC		-	02		-	XXX		-	I ²
Wavelength				Optical				Distance				XXX: Power supply			
M30 MM 1300 nm				SC connector				02 2 km (MM)				DC DC/DC adapter			
												USB ³ USB cable			

Note: 2) Industrial temperature range: -40 to +80 °C

3) Standard DC input, AC/DC power adapter with USB inlet, microUSB to DC socket adapter + USB-C to DC socket adapter, USB-A microUSB cable

Duplex optical transceiver parameters:

Rate	LD	Wavelength (nm)	Average output optical power (dBm)	Sensitivity(dBm)	Transmission distance (km)
155 Mbps	VCSEL	1300	≥ -12	≤ -36	2

Options:

- Power supply AC/DC adapter, output 5V DC, 1.2 A
- USB-DC jack cable, open second end, PN: DC2.1-CBLM
- Micro USB to DC socket adapter and USB-C to DC socket adapter



Micro USB adapter
PN: DC2.1M-USBMF



USB-C adapter
PN: DC2.1M-USBCF



AC/DC adapter
PN: AC-DC1638-65-W2E



AC/DC power adapter with USB inlet
PN: AC-DC1638-0605-W2E



USB-A microUSB-cable 0.5 m



USB-DC jack cable, open second end
PN: DC2.1-CBLM

Specifications of AC/DC adapters				
Voltage DC [V]	Loading [A]	Max. Power [W]	Ripple / Noise [mV] p-p	Connector [mm]
5	0 – 1.2	6	250	2.1 x 5.5 x 11-S
Dimensions [mm]	Weight [kg]	AC inlet	Cable length [m]	
64 x 49 x 26.5	0.072	European	1.5	