

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:

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

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 | |