



10/100Base-Tx to 100Base-Fx Unmanaged **ENHANCE** Media Converter, LFP function

In today's business environment, flexible and cost-effective solutions are necessary. The implementation of a fiber media converter can provide both cost-effective, flexible solution. With a fiber media converter you can connect different types of media seamlessly and effectively. A fiber media converter is a good alternative of a switch replacement. Network configurations that use a combination of twisted pair and fiber optic media will require fiber optic media converters. The converter allows a network segment to make the transition from UTP to fiber or from fiber to UTP.

Overview

BELLCOMMS's ENHANCE Mini media converters comply with IEEE802.3 and IEEE802.3u Fast Ethernet standard. It supports two types of media for network connection such as 10/100Base-Tx to 100Base-Fx and connects these two types of segments to operate smoothly. Supports a variety of fiber optic, including multimode and singlemode, and single-mode single fiber(WDM) transmission. Extend the transmission distance from 2km to 100km.

BELLCOMMS's CSM-MCC0018-LFP(Chassis) can contain max 18 pcs Mini series mini-media converters.

Feature

- Complies with IEEE802.3 and IEEE802.3u standards
- 10/100Mbps and full/half duplex
- Nway Auto Negotiation
- MDI/MDI-X Auto Negotiation
- Compact size 85.1mmD x 45.7mmW x 21.1mmH
- 3 LED lamps for Tx/Fx/Power indicator
- Dip switch for LFP, Jumbo frame setting etc
- Buzzer/LED for Fx-link status showing function optional
- Jumbo frame 9k is available
- High density on 19" 18 slot rack-mount chassis
- Working wavelengths 850/1310/1550/1490 etc
- Supports multimode or singlemode fiber
- Supports singlemode single fiber (WDM)
- Supports SC, ST or FC optic connector
- Supports distance from MM-2km to SM-120km
- Overload Current Protection
- Reverse Polarity Protection
- low-delay time pure data transmission
- Auto-ranging AC or DC power supply
- Class1 laser product complies with EN60825-1
- CE, FCC, RoHS available

Technical Index

Standard	IEEE Std. 802.3 10Base, 802.3u 100Base, 802.3x Full duplex	
Wavelength	850nm (Multimode) 1310nm (Multimode or Singlemode), 1550nm (Singlemode) Tx1310nm/Rx1550nm or Tx1490nm/Rx1550nm (BiDi-A) or WDM Tx1550nm/Rx1310nm or Tx1490nm/Rx1550nm (BiDi-B) or WDM	
Fiber cable	8.3/125, 8.7/125, 9/125 or 10/125 singlemode 50/125 or 62.5/125 multimode	
Connector	RJ-45 Jack and Fiber optic connectors: SC/SC/FC connector	
Cable Model and Length	Twisted pair Cat.5/Cat.6 UTP Cable: 100m	
Data Transfer Rate	2000Mbps/full-duplex with Nway Auto Negotiation	
TP	1000 FDX with MDI/MDI-X Auto Negotiation	
Fiber	1000 FDX at AUTO or FORCE mode	
Indicators	3 LED lamp for Copper-RJ45 Tx-Link; Fx-link, Power Buzzer for Fx-link available	
Dip Switch 100M	1-off/on	LFP(Link Fault-Pass Through) off / LFP on
	2-off/on	Store and forward model / pass-through model
	3-off/on	10Mbps 100Mbps Auto / 100Mbps Fixed
	4-off/on	Full Duplex / half duplex
Power supply	DC5V 1A	
Environmental Specifications	Operating temperature: 14 to 149F (-10 to 65°C) Storage temperature: -4 to 140F (-20 to 70°C) Relative humidity: 5% to 90%	
Dimensions (H x W x D)	85.1mmD x 45.7mmW x 21.1mmH	
MTBF	100,000 hours	
Max. Power consumption	less than 1w 5V@0.6A	
Tx1310/Rx1550nm transmit power	20km Tx power -3 ~ -14dB;	
MAC address table	1k	
Buffer space	1Mbit	

Application

- Distributed multi-processing
- Switch to switch interface
- Fiber To The Building (FTTB)
- Fiber To The Home (FTTH)
- Triple Play

*LLCF : Link Loss Carry Forward / Local Loop Back Test (LFS)

*LLR : Link Loss Return / Remote Loop Back Test (LFS)

Order Information

Part Number	Descriptions
CTS-ST0202-LFP	10/100Mbps, Dual Fiber, 1310nm-MultiMode, Dual-ST, 2km, LFP
CTS-SC0202-LFP	10/100Mbps, Dual Fiber, 1310nm-MultiMode, Dual-SC, 2km, LFP
CTS-SC0220-LFP	10/100Mbps, Dual Fiber, 1310nm-SingleMode, Dual-SC, 20km, LFP
CTS-SC0240-LFP	10/100Mbps, Dual Fiber, 1310nm-SingleMode, Dual-SC, 40km, LFP
CTS-SC0280-LFP	10/100Mbps, Dual Fiber, 1550nm-SingleMode, Dual-SC, 80km, LFP
CTS-SC02100-LFP	10/100Mbps, Dual Fiber, 1550nm-SingleMode, Dual-SC, 100km, LFP
CTS-SC0120T-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1310/Rx1550, Single-SC, 20km, LFP
CTS-SC0120R-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1550/Rx1310, Single-SC, 20km, LFP
CTS-SC0140T-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1490/Rx1550, Single-SC, 40km, LFP
CTS-SC0140R-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1550/Rx1490, Single-SC, 40km, LFP
CTS-SC0180T-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1490/Rx1550, Single-SC, 80km, LFP
CTS-SC0180R-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1550/Rx1490, Single-SC, 80km, LFP
CTS-SC01100T-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1490/Rx1550, Single-SC, 100km, LFP
CTS-SC01100R-LFP	10/100Mbps, WDM/Bidi, SingleFiber, Tx1550/Rx1490, Single-SC, 100km, LFP
CSM-MCC0018-LFP	18 Slots Chassis for media converter
L-Bracket	L-Bracket for miniMedia converter