

Unmanaged Media Converters Bi-directional Multimode to Single Mode

Description

Wirewerks™ bi-directional multimode to single mode media converters are available in Fast Ethernet (100Base) and Gigabit Ethernet (1000Base). They provide a cost effective solution and a dependable extension of network by connecting multimode devices over single mode cabling, or bridging single mode networks with multimode networks. Their plug-and-play design enables for a quick and easy installation.

Wirewerks media converters can be used as standalone with their external power supply, or mounted in Wirewerks media converter chassis with centralized power supply.

Features and Benefits

Half or full duplex auto-negotiation

Plug-and-play installation

Extend network distance up to 60 km in 100Base, and 20 km in 1000Base

Accommodate a variety of connector types

Power and Link status LED for monitoring and management

19 inches rack mountable in Wirewerks media converter chassis

External power supply

Applications

Local Area Networks (LAN)

Enterprise Networks

Campus Networks

Fiber to the Building (FTTB)

Fiber to the Curb (FTTC)

Point-to-point fiber networks

Certification and Compliance

IEEE 802.3u

IEEE 802.3z

FCC part 15, Class A

CE

RoHS

100Base Fast Ethernet Standard

1000Base Gigabit Ethernet Standard.

Emissions and Immunity Standard.

European Conformity Standard.

Directive on Restriction of Hazardous Substances.



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wirewerks



Ordering Information

	Description	Part Number
C26 Series	100Base Multimode 1310 nm 2 km to 100 Base Single mode 1310 nm, SC 20 km.	WMC1-C26SC20
	100Base Multimode 1310 nm 2 km to 100 Base Single mode 1310 nm, SC 40 km.	WMC1-C26SC40
	100Base Multimode 1310 nm 2 km to 100 Base Single mode 1310 nm, SC 60 km.	WMC1-C26SC60
C35 Series	1000Base SX/LX Multimode 850 nm to 1000 Base Single mode 1310 nm, SC 10 km.	WMC1-C35SC10
	1000Base SX/LX Multimode 850 nm to 1000 Base Single mode 1310 nm, SC 20 km.	WMC1-C35SC20

Packaging

Description
Cardboard box, 1 unit per box.

Inclusion

Description
1 external power supply, instructions manual.

Physical Characteristics

Parameter	Value
Fiber optic multimode interface	SC duplex
Fiber optic single mode interface	SC duplex
Fiber optic media	Multimode 50/125 μ m, 62.5/125 μ m, single mode 9/125 μ m
LED indicators	Power status, Link status
Encasement material	20 gauge Cold Rolled Steel (CRS)
Overall dimensions	97 mm (3.82 in) x 69 mm (2.72 in) x 26 mm (1.02 in)
Weight	0.2 kg (0.44 lb) without power supply

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RoHS

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		Parameter	Value
Mechanical Characteristics		Operating temperature	0° C (32° F) ~ 50° C (122° F)
		Storage temperature	-40° C (-40° F) ~ 70° C (158° F)
		Relative humidity	10~90% non-condensing
		Parameter	Value
Transmission Characteristics		Signal distance fiber port	Single mode 100Base: 20 km max., 40 km max., 60 km max. Single mode 1000Base: 10 km max., 20 km max.
		Throughput at 100Base	148,809 pps (64 byte packets)
		Throughput at 1000Base	1,448,100 pps (64 byte packets)
		Parameter	Value
Optical Characteristics	100Base	Wavelength multimode 100Base	1310 nm (nom.), 1360 nm (max.), 1270 nm (min.)
		Wavelength single mode 100Base	1310 nm (nom.), 1340 nm (max.), 1270 nm (min.)
		Output power multimode 100Base	-12/-22 dBm (max./min.)
		Output power single mode 100Base	20 km: -8/-15 dBm; 40 km: -3/-8 dBm (max./min.); 60 km: 0/-3 dBm (max./min.)
		Input power multimode 100Base	-3 dBm (max.)
		Input power single mode 100Base	20 km: -8 dBm (max.); 40 km: -3 dBm (max.); 60 km: -3 dBm (max.)
		Sensitivity multimode 100Base	-30 dBm
		Sensitivity single mode 100Base	-38 dBm
		Link budget multimode 100Base	8 dB
	Link budget single mode 100Base	20 km: 23 dB; 40 km: 30 dB; 60 km: 35 dB	
	1000Base	Wavelength multimode 1000Base	850 nm (nom.), 870 nm (max.), 830 nm (min.)
		Wavelength single mode 1000Base	1310 nm (nom.), 1340 nm (max.), 1270 nm (min.)
		Output power multimode 1000Base	-12/-17 dBm (max./min.)
		Output power single mode 1000Base	10 km: -6/-12 dBm; 20 km: -3/-8 dBm (max./min.)
		Input power multimode 1000Base	-12 dBm (max.)
		Input power single mode 1000Base	10 km: -6 dBm (max.); 20 km: -3 dBm (max.)
		Sensitivity multimode 1000Base	-20 dBm
		Sensitivity single mode 1000Base	10 km: -21dBm; 20 km: -23 dBm
		Link budget multimode 1000Base	3 dB
Link budget single mode 1000Base		10 km: 9 dB; 20 km: 15dB	
		Parameter	Value
Electrical Characteristics		External power supply 1000Base	5 Volts DC, 1A max.
		External power supply 100Base	5 Volts DC, 0.8 A max.
		Power consumption	5 Watts max.