

FIBER MULTIPLEXER

E3 electrical / optical converter



Interface Conversion

ST-2302-FA

Overview

2302-FA E3 fiber converter can be used to provide 34.36 (E3) signal conversion between electrical interface and optical interface of E3 based network interface. It conforms to the ITU-T G.703 T3 recommendation. The converter features compactness, light weight, low power consumption and high reliability.

The 34M E3 fiber converter optical / electrical operates on 1310 nm lasers, with a typical transmission distance of 40 km over single mode optical fibers. For longer hops, 1550 nm lasers can be selected for 100 km and more distances. WDM single fiber single strand also is available on request.

Exterior power supply, all the functional blocks are integrated on a single PC board, which makes the converter compact and reliable. 220 V AC or – 48 V DC power options are available by selecting an appropriate plug-in power unit.

AN-DS3 electrical interfaces are BNC sockets, “IN” is incoming E3 electrical signal and “OUT” is outgoing T3 electrical signal. The optical interfaces are SC type sockets using receive and transmit integral whole mold piece.

Features

- * High reliability, comply to ITU-T G.703
- * Single Fiber Bi-Directional is selectable
- * State-of-the-art design, ensure normal working under different environment.
- * Supports local and remote loop - back on electrical or optical interface for system diagnostic.
- * Suitable for PDH E3 interface interconnection.
- * Simple operation and maintenance
- * Compact design and low power consumption.
- * Simply to use & plug & play E3 fiber converter

Specification

Product	Descriptions	
Electrical Interface	Standard	ITU-T G.703 Compliant
	Data Rate	34.368 Mbps
	Line Code	HDB3
	Physical Connector	BNC Coaxial
Optical Interface	Bit rate	34.368 Mbps
	Coding	NRZ
	Connector	SC
	Light source	Laser Diode
	Wave length	1310 nm (Typical), or 1550 nm (Optional) or Single Fiber Bi-Directional (Optional)
	Transmit power	-12 dBm (1310 nm) / -5 dBm (1550 nm)
	Receive sensitive	-36 dBm (1310 nm) / -38 dBm (1550 nm)
Power supply	AC 220V	Range 165 V to 265 V
	DC -48V	Range -36V to -72V
	Power Consumption	<3 W
Environment	Working Temperature	0 50 C
	Relative Humidity	<90 % (Non condensing)
Dimension	WxHxD(mm): 205 x 135 x 46	

Ordering Information

Product	Descriptions
2302-FA/SM-40	E3/T3 fiber converter 110/220 V AC or 48 V DC, Single mode, 40 km
2302-FA/SM-60	E3/T3 fiber converter 110/220 V AC or 48 V DC, Single mode, 60 km
2302-FA/SM-120	E3/T3 fiber converter 110/220 V AC or 48 V DC, Single mode, 120 km
2302-FA/MM	E3/T3 fiber converter 110/220 V AC or 48 V DC, Multi mode, 2 km
2302-FA/WDM	E3/T3 fiber converter 110/220 V AC or 48 VDC, WDM(BiDi), 20km

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* Specs and Pictures of the product can be revised according to R&D

* Products design in UK.

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