

FIBER MULTIPLEXER



DS3 T3 Fiber modem/extender/converter

Interface Conversion

ST-2303-FA

Overview

The DS3 fiber modem is used to provide 44.736M (T3) converter between electrical interface and optical interface of PDH network. The converter features compactness, light weight, low power consumption and high reliability.

The 45M optical / electrical converter 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.

DS3 electrical interfaces are BNC sockets, "IN" is incoming T3 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 all relevant standards
- * 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 DS3/T3 interface interconnection.
- * Simple operation and maintenance
- * Compact design and low power consumption.

Specifications

Optical interface	Connector: SC - using receive and transmit integral whole mold piece. Wavelength: 1.31 μ m (typical), with a typical transmission distance of 40 km over single mode optical fibers, 1550 nm for up to 100 km
Electrical interface	Comply with ITU-T G.703 T3 recommendation Bit rate: 44.736Mbit/s Impedance: 75 ohm (unbalanced)
Dimension	Width: 205mm Height: 46mm Depth: 135mm
Power:	DC type: -48V (-36V to -60V) AC type: ~220V (176V~265V) Power consumption: <3W
Working environment:	Temperature: 0 ~50°C Humidity: \leq 90% non condensing 1.5.

Application Diagram



Ordering Information

Product	Descriptions
2303-FA/SM-40	DS3 T3 optical electrical fiber modem / converter / extender, 40 km single mode dual fiber, AC or DC power supply options
2303-FA/SM-60	DS3 T3 optical electrical fiber modem / converter / extender, 60 km single mode dual fiber, AC or DC power supply options
2303-FA/SM-80	DS3 T3 optical electrical fiber modem / converter / extender, 80 km single mode dual fiber, AC or DC power supply options
2303-FA/SM-100	DS3 T3 optical electrical fiber modem / converter / extender, 100 km single mode dual fiber, AC or DC power supply options
2303-FA/SM-120	DS3 T3 optical electrical fiber modem / converter / extender, 120 km single mode dual fiber, AC or DC power supply options
2303-FA/SM-WDM20	DS3 T3 optical electrical fiber modem / converter / extender, 20 km single mode single fiber, AC or DC power supply options
2303-FA/SM-WDM40	DS3 T3 optical electrical fiber modem / converter / extender, 40 km single mode single fiber, AC or DC power supply options
2303-FA/SM-WDM60	DS3 T3 optical electrical fiber modem / converter / extender, 60 km single mode single fiber, AC or DC power supply options

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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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