

STM-1 to Ethernet 10/100 BaseT Converter



ORDERING INFORMATION

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SPOTLIGHT

AN-STM-1-ETH converter provides easy conversion from **STM-1** interface to **10/100 Ethernet**, and has web manager and SNMP support.

DESCRIPTION

The core of **AN-STM-ETH** unit is the SDH processing block implemented in a single FPGA. Its functions include SDH mapping, pointer processing, multiplexing, framing, clock extraction, alarm detections. The Ethernet processing deals with the Ethernet interface functions, such as rate negotiation, CRC processing etc. The E1 interface block converts between TTL level and HDB3 signal format. FO interface converts STM-1 optical signal into electrical format for processing by the FPGA, and vice versa.

Orderwire block allows maintenance telephone conversation to be established between two connected **AN-STM-ETH** units, or between the **AN-STM-ETH** and the AN-MSPP. A handset is used for orderwire instead of a full functional telephone set. As a CPE equipment, management **on AN-STM-ETH** is usually done through the management station connected to the AN-MSPP. When used in a point-to-point link, management is through the RS485 management port using TABS protocol. The power conversion block converts input -48V DC or 220V AC power supply to internal voltages for logical operations.

FEATURE

- Fully SDH based platform - it can be used not only as STM-1 Ethernet converter, but also as a SDH terminal mux
- Easy in operation, easy to install;
- Q3 or SNMP (10Base-T, RS-485 interface)
- GUI manager for features set up
- 4E1 lines together with Ethernet port - as a bonus;
- Different STM-1 wavelenghts and distances - WDM/Single Mode/Multimode up to 120 km
- Standard 19 inch 1 unit box
- -48V DC or 220V AC or +24V DC power supply

SPECIFICATION

SDH signal interface:	Comply with IEEE 802.3 related suggestions.
Bit rate : 155520kbit/s (STM-1, G.957, framing G.707)	10M/100M auto-adapted socket
Line code : Scrambled NRZ	The channel rate of Ethernet can be adjusted among 2M to 100M, and the rate can be decided by setting the quantity of VC12(1~46).
Optic ports : 1 or 2 optic ports selected	Half duplex/full duplex auto-adapted
Ethernet data port	HP auto-MDIX, MDI and MDI-X auto-adapted,connector:RJ45 socket
Two 100Base-Tx Ethernet ports.	

Application scenario:

