RADITEK

Telecom
Protocol Converter

Protocol Converter STM-1 to Ethernet
Ethernet connections over STM-1

RoHS COMPLIANT

Features:

- Fully SDH based platform
- STM-1 Ethernet converter
- SDH terminal multiplexer
- Easy in operation, easy to install;
- SNMP 10Base-T and RS-485 interface
- GUI based manager
- Different STM-1 wavelengths. WDM/Single Mode/Multimode for up to 120 km
- Size standard 19 inch, 1 Rack Unit
- Power options: 220V AC, -48V DC. +24V DC

ORDERING INFORMATION

STM-1 to Ethernet converter, single or multimode, or WDM up to 120 km, 48 V or 220 AC/110 V AC

- **SDH processing block implemented in a single FPGA.**
- 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 units, or between the RCONV-STM-n20 and the MSPP. A handset is used for order wire instead of a full functional telephone set.
- As a CPE equipment, management on RCONV-STM-n20 is usually done through the management station connected to the 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.

Specifications	
Related standards:	STM-1 SDH optic port G.957, framing G.707 Ports Ethernet port IEEE 802.3 100Base-Tx Timing SDH G.813, G.825, Post & Telecommunications Ministry YDN121-1999, YDN123-1999
SDH signal interface:	Bit rate: 155520kbit/s (STM-1, G.957, framing G.707) Line code: Scrambled NRZ Optic ports: 1 or 2 optic ports selected
Ethernet data port:	Two 100Base-Tx Ethernet ports are available. Comply with IEEE 802.3 related suggestions. 10M/100M auto-adapted 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). Half duplex/full duplex auto-adapted HP auto-MDIX MDI and MDI-X auto-adapted,connector:RJ45 socket 802.1Q MAC packet transparent transmission supported. Maximum size :1536 bytes
Environment:	Temperature:0°C~45°C Humidity:< 90 % (non-condensing)
Dimension:	440(W) x 44(H) x 138(D) (mm)
Weight:	<2kg