

TEAMLINK 3101 IETH-E1

Managed Fast Ethernet Over E1/T1 Converters / Router

Team link 3101 is an intelligent converter connecting 10/100Mbps fast ethernet over fractional or full E1 circuits, that enable service providers and ISP's to supply transparent ethernet services over SDH and PDH circuits.



FEATURES

- HDLC / GFP - F Encapsulation.
- Supports CRC - 4 multiframe auto adoption.
- Loop back detection at WAN or E1 side and discards the ethernet packets to protect the ethernet network from jamming.
- Complying GFP (G.8040, G7041 / Y.1303) HDLC framing compatible with the RJ-107.
- Discards over sized and undersized packets.
- Support STP/RSTP
- The fast ethernet bridge handles 1784 bytes frames supporting for VLAN applications and other protocols requires large frame sizes.
- 4k Mac address table learning.
- Broadcast Storm filtering supports.
- Mac table display for each ethernet port and E1 side also.
- The Teamlink 3101 ethernet to E1 conveter can interoperable with third party converters with standard HDLC or GFP framing that can eliminate pair of converters for each link.
- Auto MDIX for auto Tx / Rx.
- 4 levels of QoS based on four priority queues.
- VLAN tagging and Un tagging.
- Ethernet transmit, Receive, Collision and error packets display
- Inband and out of band management access via:
 - ASCII Terminal
 - Telnet
 - SNMP
 - Teamview-EMS

MANAGEMENT

SNMP-based element management software provides SNMP traps, status polling, and configuration download. Remote Configuration is also possible through Telnet & SNMP using in-band management

The devices are managed inband from the Fast Ethernet user port or via the TDM port. Management traffic and user Ethernet traffic are transported together on the same Ethernet flow, separated by different VLANs, thus ensuring traffic security.

DIAGNOSTICS

- Remote and local loopbacks are used for problem isolation at the physical layer.
- Abuilt-in ping utility checks IP connectivity by pinging remote IP hosts.

Sends Alarm notification to Manager IP addresses for the following.

- E1 : Up / Down
- Ethernet : Up / Down
- Loopback : On / Off
- If the ethernet error packets or collusion packets are reached more than threshold values.

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SPECIFICATIONS

E1 INTERFACE

- Number of Ports : One
- Compliance : G.703
- Data Rate : 2.048 Mbps
- Line Code : HDB3, AMI
- Framing : Unframed
- Max Frame Size : 1800 bytes
- Line Impedance : 120 Ohms, balanced
- System Clock : Internal or loopback timing
- Diagnostics :Remote and local loopback
- Connector : RJ-45

ETHERNET INTERFACE

- Number of ethernet interfaces 1 / 2 / 4 (Ordering Time Option)
- Type : 10/100 Mbps auto negotiation.
- Full / half duplex, flow control
- Auto MDIX or Auto Cross Over facility
- Compliance : Conforms to the relevant sections of IEEE 802.3 and 802.3u
- Connector : RJ-45
- PoE: Power Over Ethernet is an ordering time option

ODERING

- Teamlink 3101IETH Managed Fast Ethernet over E1 converter
- AC/DC power cord or adapter plug

Framing

- HDLC compatible with RAD HDLC protocol
- GFP-F (G.8040, G.7041 / Y.1303)

GENERAL Indicators

- PWR – Power Status
- E1 loss – E1 loss Status
- AIS – AIS Status
- LOF – Loss of Frame
- ERR – Pattern Errors
- Loop – Loop Indication
- RAI – Remote Alarm Indication

Power

- AC : 100 to 240 VAC ($\pm 10\%$), 50 to 60 Hz
- DC : -24/-48 VDC ($\pm 10\%$)

Power Consumption : <2W

Environment

- Temperature : 0-70°C / 32-122°F
- Humidity :Up to 90% non-condensing

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Application Diagrams

