

## Fast Ethernet Over 4E1 Converters

**T**eamlink 3104 Ethernet over PDH converter uses the next generation PDH technology such as generic framing procedure(GFP G.8040), Virtual concatenation (VCAT G.7043) and link capacity adjustment scheme(LCAS G.7042).

### MANAGEMENT

The devices are managed in-band or out of band 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 based on port based or tag based VLAN.

### FEATURES

- Connect Fast Ethernet Electrical and Optical LANS over E1 circuits
- E1 port Enable / Disable Selection.
- Inband and out-of-band management access vis:
  - ASCII terminal
  - Telnet
  - SNMP
- Wire-speed packetforwarding
- 4-levels of QoS, based on four VLAN priority queues as per 802.1p
- Ethernet Frame size settings
- VLAN Tagging Un Tagging.
- MAC table Display
- Ethernet framesize settings
- Ethernet transmit,Receive,Collision and error packets display
- Ethernet Rate Controle.
- Special tag for the management traffic that will transmit in the same traffic to ensure the inband management functions.
- Enables the higher bandwidth capacity Ethernet Services to Remote locations.
- TEAMLINK 3104 uses next generation Ethernet Over PDH network protocols like GFP(G.8040), Virtual Concatenation (VCAT G.7043) and Link Capacity adjustment scheme (LCAS G.7042).
- Inter operable with the any device which is using the standard Protocols like GFP,VCAS,LCAS for connecting.
- VLAN - aware and VLAN - Unaware operation.
- Wire speed packet forwarding based on No.of E1s.
- Delay Compensation up to 255ms among the E1.
- Self-Learning Ethernet Briding
- QOS based on VLAN Priority.



## Fast Ethernet Over 4E1 Converters

### DISCRIPTION

- Teamlink 3104EE is intelligent converter connecting Fast Ethernet LANs over E1 circuits. They enable service providers and ISPs to supply Transparent Ethernet servies, without interfering with user traffic.
- The 802.1p priority scheme enables user to define four different QoS levels, according to the application requirement.
- The Fast Ethernet bridge handles frame size settings to 1522, 1526, 1654, 1784 bytes.

### Sends Alarm notification to Manager IP addredded 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.

### SPECIFICATIONS

#### E1 INTERFACE

- **Number of Ports** : 4
- **Compliance** : G.703 / G.704
- **Data Rate** : 2.048 Mbps
- **Line Code** : HDB3, AMI
- **Line Impedance** : 120 Ohms, balanced
- **System Clock** : Internal or loopback timing
- **Diagnostics** : Remote and local loopback
- **Connector** : RJ-45

#### ETHERNET INTERFACE

##### Ethernet Electrical

- **Type**: 10/100 Base-TX  
auto negotiation,  
full/half duplex flow control.
- **Compliance** : Confirms to the relevant sections of IEEE 802.3 and 802.3U
- **Connector** : RJ-45

##### Ethernet Optical

- **Type**: 100 Base-FX  
Auto negotiation,  
Full duplex flow control.
- **Compliance** : Confirms to the relevant sections of IEEE 802.3 and 802.3U
- **Connector** : LC / SC
- **Wave Length** : 850 NM / 1550 NM

### GENERAL

#### INDICATORS

- PWR - Power status.
- E1 Los - Los of E1 signal.
- Link1 - Fiber Ethernet Port Link.
- SPD1 - Fiber Ethernet Port Speed.
- LINK2 - Copper Ethernet Port Link.
- SPD2 - Copper Ethernet Port Speed.

### WAN PROTOCOL

- **TEAMLINK 3104** uses next generation Ethernet Over PDH network protocols like GFP(G.8040), Virtual Concatenation (VCAT G.7043) and Link Capacity adjustment cheme (LCAS G.7042).
- **Type** : GFP(VCAT & LCAS)
- **CRC Type** : 16 or 32 bit selection.

#### POWER

- DUAL MODE AC/DC, 230VAC +/- 10% & -48VDC +/-10%

**POWER CONSUMPTION** : < 2W

#### ENVIRONMENT

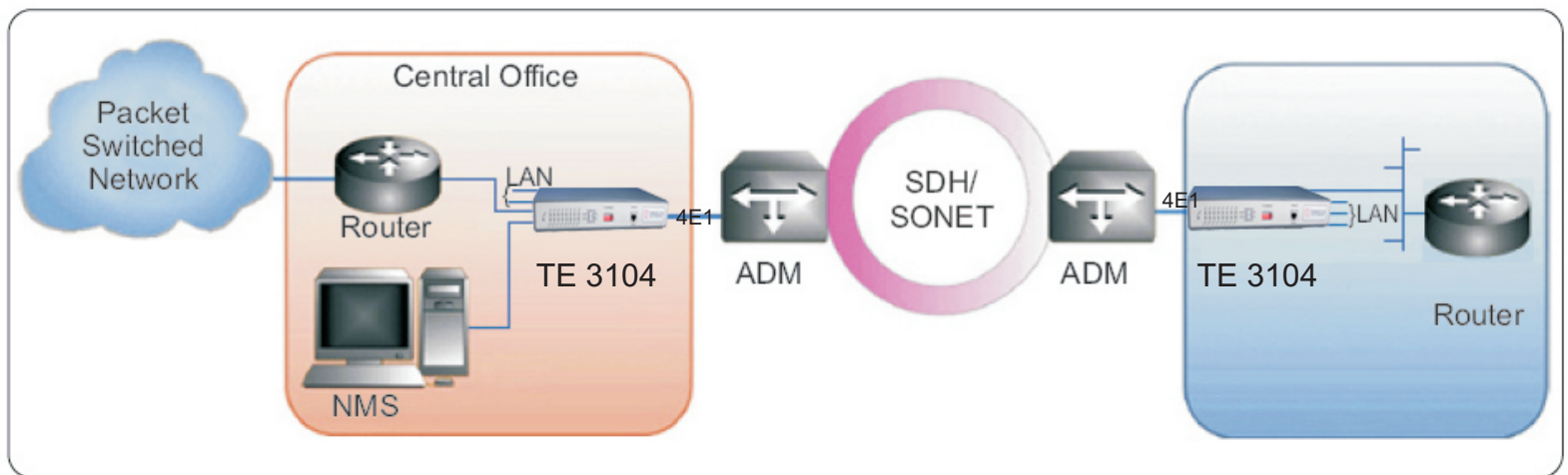
- **Temperature** : 0 - 50°C/32 - 122°F
- **Humidity** : Up to 90% non-condensing

#### PHYSICAL

- Height :
- Width :
- Depth :
- Weight :

## Fast Ethernet Over 4E1 Converters

### APPLICATION DIAGRAM



### ORDERING

- Teamlink 3104EE Managed Fast Ethernet over 4 E1 converter.
- Supplied Accessories.
- AC power cord or adapter plug
- DC power cord or adapter plug
- 10Meters E1 cable for each port.
- 10Meters Fiber Optical Cable
- 10Meters Ethernet patch card
- Interface adapter for converting a balanced E1 RJ-45 connector to a pair of BNC unbalanced coaxial connectors supplied when ordering E1 unbalanced option.