

TDM over IP Gateway G4640/G4620



Description

G4640/G4620 offers a solution for extending traditional E1 services transparently over Ethernet network. The device converts the data stream coming from its TDM ports into Ethernet packets that are encapsulated using TDM over IP method and forwarded over Ethernet, G4640/G4620 offers point to point or point to multi-point synchronization for voice/leased line applications. G4640/G4620 also provide 4 Gigabit Ethernet ports (1 x Combo, 3 x LAN) for connectivity to IP networks and Ethernet devices. Management is performed locally by a terminal, or remotely via Web, Telnet, or SNMP.

Several versions of the unit are available, offering different of impedance types and 4 or 2 x E1 ports to suite different application requirements.

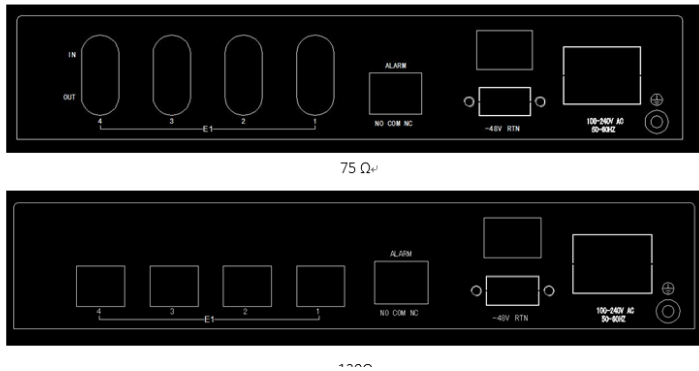
Features

Ethernet LAN

- ◆ Granular Ingress/Egress Bandwidth Control per port, per queue and per ACL Rule.
- ◆ Port Base VLAN & 4K 802.1Q VLAN Group.
- ◆ Supports flexible QinQ
- ◆ Supports 40 MIBs Counters
- ◆ 1M Bits on-chip buffer memory
- ◆ Supports 9K Bytes Jumbo Frame.
- ◆ Supports IEEE802.3az
- ◆ Support port rate limit

TDM E1





- ◆ Support 4 or 2 channel TDM ports
- ◆ Comply with ITU-T G.703
- ◆ Support framed / unframed E1 Interface for TDM Payload to/from PSN Interface, NRZ Serial Interface with LOS/AIS detection
- ◆ Support 4 or 2 independent hardware-based adaptive clock recovery, Recovered clock jitter compliant to ITU-T G.823 (E1 Jitter Control)
- ◆ Independent configurable jitter buffer depth to compensate up to 256ms of Packet Delay Variation
- ◆ Support minimum run-trip latency delay, for voice or IP phone application
- ◆ Support Circuit Emulation Service over Ethernet (CESOE) transport over Ethernet /IP networks
- ◆ Complies with IETF draft standard for CESoPSN(IETF RFC5086) and SAToP (IETF RFC4553); Metro Ethernet Forum MEF8 IA
- ◆ Support both Point-to-Point and Point-to-Multipoint operation
- ◆ Provide lost packets processing and compensation due to PSN impairment

Specification

Giga Ethernet Interface

Standard:	IEEE 802.3 / IEEE 802.3u
Interface:	IEEE 802.3/802.3u 10/100/1000M Base-T
Bridging Capability:	Complied with IEEE 802.1d transparent bridge Supports VLAN ID, Q in Q and up to 2048 MAC addresses learning
Connection Type:	RJ45, 4 ports
Ethernet packet size:	Maximum packet size up to 9K jumbo frame

SFP interface

Type	One 100Base-FX 802.3u interface or 10/100/1000Base-FX 802.3u interface, SFP type
Parameter	The detail specification is in order information required like fiber type,



wavelength, and optical power.

E1 Interface

Standard:	ITU-T G.703, G.704,
No. of E1 output:	1~4, scaled down automatically per E1 alarms
Line rate:	2048 Kbps +/- 50 PPM
Line Code:	HDB3
Framing:	PCM31, PCM31C, PCM30, PCM30C
Pulse shape:	Meet ITU-T G.703
Impedance:	Balanced 120Ω +/- 5% resistive or unbalanced 75Ω +/- 5% resistive, software programmable
Connection Type:	RJ-45 (120Ω) or BNC (75Ω)

Mechanic

Desktop (WxHxD) 234 x 155 x 44 mm

Operation

Temperature 0° ~ 50° C
Humidity 5 ~ 95% non-condensing

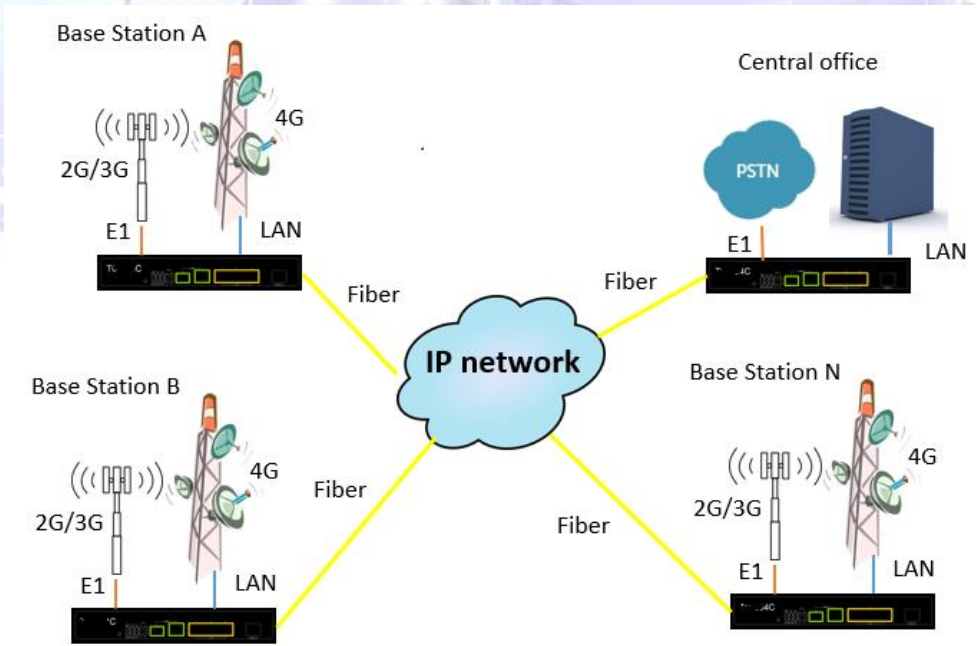
Configuration

Local console (RS232)
Telnet access
Web-based GUI (HTTP)

Network Management

Web-based GUI for express setup, configuration, and management
Menu-driven interface for local console and Telnet access
Password protected management and access control list for administration
SNMP management with SNMPv1/SNMPv2/v3
Software upgrade via web & TFTP server

Application



Railway Proprietary Communication System

Operational Center

