

# TDM over IP Gateway G4630



## Description

G4630 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, G4630 offers point to point or point to multi-point synchronization for voice/leased line applications. G4630 also provide 4 Gigabit Ethernet ports 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 4x E1 ports to suite different application requirements.

## Features

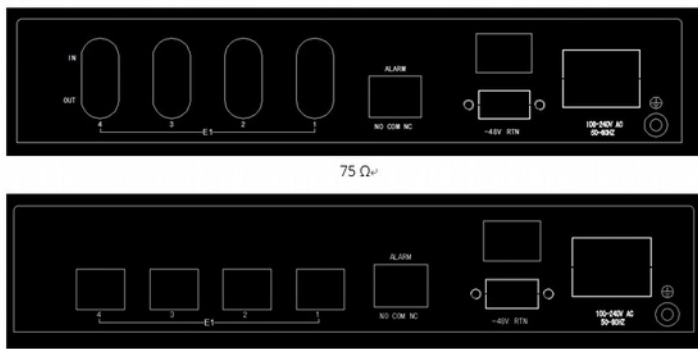
### Ethernet LAN

- ◆ 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 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 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 IEFT 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



Parameter interface, SFP type  
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

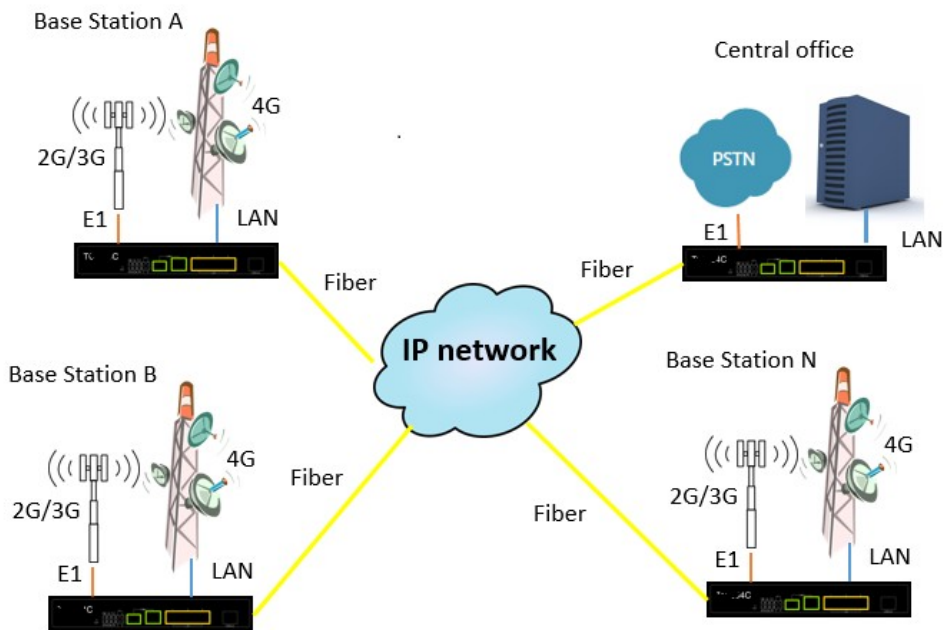
### **Configuration**

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**

