

8 E1 over IP Gateway G4680

Description



G4680 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, G4680 offers point to point or point to multi-point synchronization for voice/leased line applications. G4680 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 different number of the E1 ports to suite different application requirements.



Features

Ethernet

- ◆ Port Base VLAN & 4K 802.1Q VLAN Group.
- ◆ Supports flexible QinQ
- ◆ Supports 9K Bytes Jumbo Frame.
- ◆ Supports IEEE802.3az
- ◆ Support port rate limit
- ◆ Support EOC transparent

E1

- ◆ Support 8 channel TDM port
- ◆ 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 8 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 or MPLS (option) 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 interface, SFP or SC type (optional)
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: 1~8, 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 or BNC

Mechanic

Desktop (W x H x D): 234mm x 155mm x 44mm

Operation

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

Application

