

Inverse Multiplexing Ethernet Gateway

RC953-GESTM1

RC953-GESTM1 is an Inverse Multiplexing Ethernet Gateway that delivers Ethernet services over existing TDM transportation network, which has high aggregation capability. It can be deployed in central site for aggregating subscribers or in customer premises enabling Inverse Multiplexing for enlarging much more bandwidth.

RC957-GESTM1 provides 1 combo Ethernet port (copper/fiber optional) and 2 STM-1 ports for subscribers, integrated with a SNMP

agent on the device, RC953-GESTM1 comes with a out-of-band management in form of polling mechanism.

Multiple bandwidth Ethernet services can be aggregated to provide the most flexibility and convenience for carriers and subscribers. It can aggregates up to 63 single-E1s or different combinations of them to provide the most flexibility and convenience for carriers and subscribers.



RC953-GESTM1

Feature

Ethernet Mapping: HDLC over E1 mapping

GFP mapping (on developing)

Ethernet Service: MDI/MIDX auto-negotiation

4k MAC address with filtering functionality

Rate limiting N*64k

Transparent Transmission for BPDU, GMRP, LGMP

VLAN unware, transparent

E1 service: Master or slave clock mode

Optional BERT functionality for E1 line

Unframed or transparent E1 network interface

Port states indication and statistics collection

Management: Out-of-band management for local equipment

In-band management for remote converter connected to RC952

SNMP, Telnet as well as RS-232 terminal port for direct connection to a console

Specification

GE Ethernet electrical port:

Standard:

IEEE 802.3x Auto negotiation

IEEE802.3 Ethernet

IEEE802.3u Fast Ethernet

IEEE802.3z Gigbit Ethernet

Rate: 10/100/1000Mbps

Connector Type: RJ45

GE Optical port:

Standards:

1000Base-Fx

Rate: 1000Mbps

Connector Type: SFP

Wavelength: 850nm, 1310nm, 1550nm

STM-1 Interface:

Provide two STM-1 interface, working at 1+1 low path protection mode

Standards: ITU-T G.707

Dimensions:

440(W)*43.6(H)*360(D) (mm) (standalone)

Power Supply: (dual power supply)

230V AC range: 180V~260V

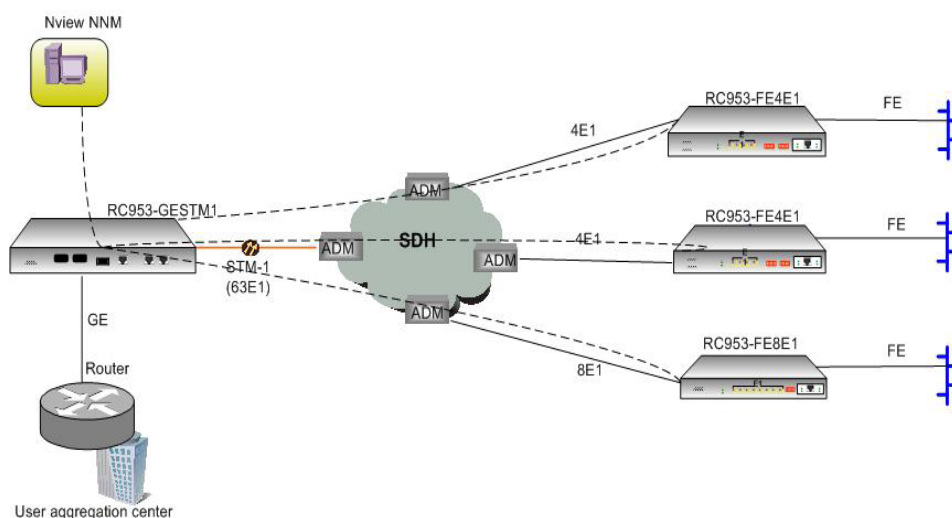
-48V DC rang: -36V~-72V

Environment:

-5~50 degrees Centigrade operating

5%~90% humidity non-condensing

Application



In the solution, RC953-GESTM1 is placed at host site, RC953 is placed at customer site. It enables service providers and enterprises to provide scalable transparent Ethernet Private line or Ethernet Private LAN. The rate from fractional E1 to n*E1. The solution provides a good way for seamless connection between carriers and customer.

Ordering Information

Part Number	Description
RC953-GESTM1-S1-AC	A: FX: The GE interface is SFP optical port, TX:The GE interface is RJ45 electrical port B: Service interface type, type is GESTM1, denotes optical GE interface or electrical GE interface, and 1+1 STM1 as protection C: SDH interface type: M, S1, S2, S3, SS1, SS2 D: Power Supply type: 230V AC or -48V DC

Fiber Optical Interface Characteristics

Part Number	Wavelength(nm)	Mode	Typical Range (Km)
M	1310	multi	0~2
S1	1310	single	0~25
S2	1310	single	10~60
S3	1550	single	15~120
SS1	1310	single	0~25
SS2	1550	single	10~50

Note:

- For M type, 850nm and 1310nm are available. The default wavelength for Raisecom's products with 155M optical interface is 1310nm, for 850nm, it is customized.
- If you use SS1 or SS2 type, the default status for Raisecom's products is: TX of EAST port is 1310nm, RX of EAST port is 1550nm; TX of WEST port is 1550nm, TX of WEST port is 1310nm.