Raisecom Technology Co., Ltd

Datasheet

RC951E-4FEE1 Single E1 EoPDH Remote Gateway

RC951E-4FEE1 is a single E1 EoPDH remote gateway and also an intelligent Ethernet Demarcation Devices (EDD). The device offers 4 FE downlink ports and 1 E1 uplink, and can be deployed in either a point-to-point topology or a point-to-multipoint topology. HDLC/GFP encapsulation configurable gives the device more flexibility as a CPE. Moreover, as a Raisecom EDD, RC951E-4FEE1 is not only capable of Ethernet switching, but is inherently good at network diagnostics. With standard OAM and CFM, the network administrators are provided with tools to keep the service channel effective. RC951E-4FEE1 can be managed via local/remote CLI, in-band web-based management, and can also be monitored and managed in a centralized way on the GUI of Raisecom NView NNM system.

RC951E-4FEE1

Highlights

Topology Flexibility	Fits in both point-to-point and point-to-multipoint EoPDH solution
Standard GFP	makes the device capable of working with other EoPDH device adopt stand GFP encapsulation
Demarcation Feature	Advanced Ethernet diagnostics tools standard OAM and CFM available on the device
Easy Management	Management via local/remote CLI, in-band web-based management, and SNMP

Typical Application

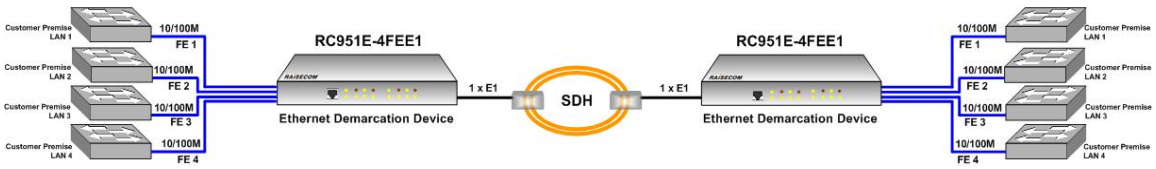

Figure.1 Point-to-Point Topology

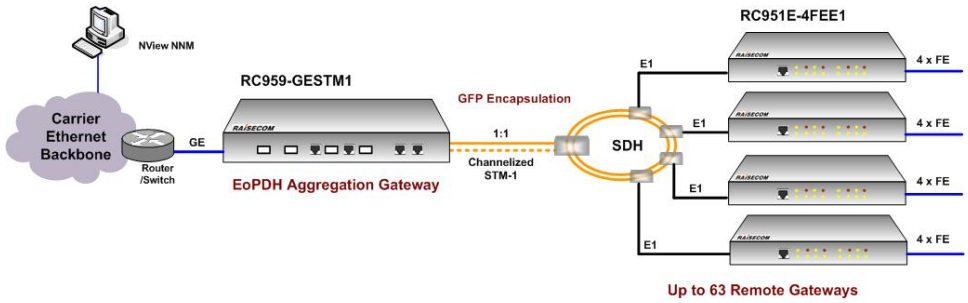

Figure.2 Point-to-Multipoint Topology

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Features

EoPDH	4 FE over 1 E1 HDLC/GFP encapsulation, software configurable
E1 port	Framed, PCM31, FAC+CRC4, CRC-auto configurable E1 loopback test Local and remote E1 LOS, LOF, AIS, CRC, GIDerror report
FE port	10/100Mbps auto-negotiation, speed and duplex mode configurable MTU: 1632 Bytes Flow Control: IEEE 802.3x in full duplex mode Back pressure in half duplex mode
Forwarding mode	Store and Forward Buffer size: 128KB
MAC Address Table	8K MAC address Add/remove/search MAC address table entries View MAC address table statistics MAC address aging time configurable: 15-3825s MAC address learning threshold per port Optional MAC address table limit per port: 1-255
VLAN	4K active VLAN Port PVID overwrite Q-in-Q Switch port protect
QoS	4 queue per port CoS/DSCP/port-based Global queue scheduling : SP/WRR WRR weight range: 1-125
Rate Limit	Per port with increments 64Kbps (64K-1M), 1Mbps (1-100M)
Storm Control	Broadcast/Multicast/Unicast DLF storm control
Port Mirroring	Mirroring of egress/ingress/bidirectional traffic of ports
Link Aggregation	4 groups, up to 4 ports in each group
Loopback Detection	Shutdown port when loopback is detected
Packet Relay	Optional STP/DOT1X/LACP relay, threshold configurable
Cable Diagnostics	Cable status report, including position information
OAM	IEEE 802.3ah OAM (discovery, link performance monitor, remote loopback testing, remote failure indication) Extended OAM
CFM	IEEE 802.1ag ITU-T Y.1731
SLA	Layer-2/Layer-3 SLA

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DHCP	Client
	DHCP Snooping
ACL	IP-based/MAC-based ACL
Keep-Alive	Report device information regularly
RMON	Group 1, 2, 3, 9
Syslog	Support
Routing Protocol	Static routing & default gateway
Auto-Configuration	Automatic configuration loading
Scheduling	Execute command script periodically
Security	User classification and password protection
	RADIUS
	TACAS+
	Port Isolation
	PPPoE Agent
Hardware Environment Monitoring	Monitor temperature and voltage
Management	CLI-based management through local CONSOLE or remote Telnet/SSH
	In-band web-based management
	GUI-based SNMP management on Raisecom NView NNM system
Cluster Management	Raisecom Neighbor Discovery Protocol (RNDP)

Specifications

Capacity	32MB SDRAM
	8MB Flash
	128KB Switch buffer
LAN interface	4*10/100Base-TX
	RJ-45 connector
	Speed: 10/100Mbps auto-negotiation
	Duplex Mode: Full/Half
	Auto-MDI/MDIX support
WAN interface	1*E1 ports
	120Ω balanced, RJ-45 connector
	75Ω unbalanced, BNC connector
	Bit Rate: 2048Kbps±50ppm
	Code: HDB3
CONSOLE port	RS232
	Baud Rate: 9600
	RJ-45 connector

Compliances

Standards & protocols	IEEE802.3-2002
	IEEE802.3 10BaseT
	IEEE802.3u 100BaseTX
	IEEE802.3x Flow Control
	IEEE802.1Q VLAN
	IEEE802.1ad QinQ
	IEEE802.3ad Link Aggregation
	IEEE802.1p CoS Prioritization
	IEEE802.3ah OAM
	IEEE802.1ag CFM
	ITU-T Y.1731 Service OAM
	Static Routing
	RMON I and II standards
	SNMP v1/v2c/v3
	ITU-T G.703, G.704, G.823, G.824
	ITU-T G.7041, G.7042, G.7043, G.8040

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Indicator	PWR for power supply SYS for system operation LNK/ACT and 100M for each FE port LOS for E1 port
Dimension	44(H)x300(W)x135(D)mm
Weight	≤ 1.425kg
Power supply	AC: 100-240V DC: -48V WP: wide-range
Power consumption	≤ 10W (full load)
Working environment	Temp: -5~55 Celsius RH: ≤ 90% (35 Celsius)
Storage environment	Temp : -40~80 Celsius RH : 5~90% non-condensing

	CE marking

Ordering Information

RC951E-4FEE1-AC	Intelligent EoPDH remote gateway, 4 10/100M FE ports on WAN side, 1 E1 (120Ω balanced, RJ-45 or 75 Ω unbalanced, BNC) port on LAN side, AC power supply
RC951E-4FEE1-DC	Intelligent EoPDH remote gateway, 4 10/100M FE ports on WAN side, 1 E1 (120Ω balanced, RJ-45 or 75 Ω unbalanced, BNC) port on LAN side, DC power supply
RC951E-4FEE1-WP	Intelligent EoPDH remote gateway, 4 10/100M FE ports on WAN side, 1 E1 (120Ω balanced, RJ-45 or 75 Ω unbalanced, BNC) port on LAN side, WP wide-range power supply

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