Datasheet

RC952-FEE1 10/100Mbps Ethernet to E1 Protocol Converter

RC952 series protocol converter provides 1E1 link (2Mbps) for transportation of 10/100M Ethernet services. They are always working in pairs to encapsulate/extract Ethernet data frames into/from HDLC frames, providing a transparent channel between enterprise and carrier POP or between enterprise offices.

RC952 provides protocol conversions and acts as a bridge which bridges the gap between Ethernet and legacy TDM network. Thus, it has a very broad range of applications, such as connecting IP DSLAM, connecting Routers/Switches between POPs, etc.

RC952-FEE1

RC952-FXE1

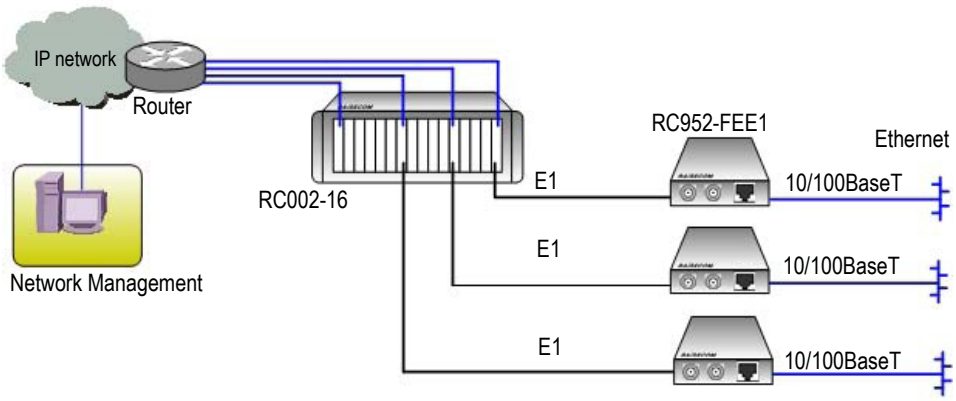
Feature

- Cost-effective Fast Ethernet to E1 or fractional E1 conversion.
- Connect LAN/MAN via existing TDM networks.
- Available as slide-in module.
- The slide-in module can be plugged in RC001-1, RC001/002-4 or RC002-16 chassis.
- SNMP management.
- Completed alarm message, analysis and alarm capability for faults in E1 link are provided; the fault point can be easily detected and located.
- Fault Pass Through (FPT) function diverts the alarms from receiving and transmitting side of E1 to Fast Ethernet interface and reports to Switch.
- Auto-negotiation and auto-crossing guarantee easy installation and low maintenance efforts.
- Raisecom Private OAM protocol, remote RC952 that is always situated at customer promise can also be managed and monitored.

Specification

- E1 Interface:
  - Bit Rate: 2048kbps±50ppm
  - Line Code: HDB3
- Input Impedance:
  - 750ohm(unbalanced BNC connector)
  - 120ohm(balanced RJ45 connector)
- Electrical Characteristics:
  - ITU-T G.703
- Frame Structure:
  - ITU-T G.823
- Ethernet Interface:
- Compiant to IEEE 802.3 standard
- IEEE 802.3u Fast Ethernet standard
- 10/100Base Tx Ethernet port(RJ45),100FX(SC)
- Support over-sized data frame up to 1916 bytes
- Modular units can be hot-swapped, with high reliability
- Dimensions:
  - 91(W)*25(H0*155(D)(mm)(modular)
- Environment:
  - 0~45 degrees Centigrade operating
  - 5%~90% humidity non-condensing

APPLICATION



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Application

In the application. Modular unit RC952-FEE1 is installed in RC002-16 16-slot chassis at central site. Standalone unit (RC952-FEE1 is installed in RC001-1 chassis) is placed customer site. The application extends 10/100BaseT over transparent or fractional E1, and provides two clock modes: master clock and slave clock. RC952-FEE1 supports MPLS frame. RC952-FEE1 has carrier-grade network management capability and remote network management capability, At central site, administrator can dispose and control modular units and remote standalone unit, through network management platform, for instance: working mode of RJ45 port, enable or disable E1 link, loop-back test, and reset all RJ45 ports. RC002-16 chassis supports redundant, load sharing and hot-swappable power supply. The application provides a cost-effective solution.

Ordering Information

Part Number	Description
RC952-FEE1	Standalone, 10/100Mbps-4*E1interface converter, remote SNMP-management, 19” 1U chassis, AC 115V or 230V/DC –48V
RC952-FXE1-M	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1310nm, 0~2km
RC952-FXE1-S1	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1310nm, 0~25km
RC952-FXE1-S2	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1310nm, 10~60km
RC952-FXE1-S3	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1550nm, 15~120km
RC952-FXE1-SS13	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1310nmTx 1550nmRx, 0~25km
RC952-FXE1-SS15	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1550nmTx 1310nmRx, 0~25km
RC952-FXE1-SS23	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1310nmTx 1550nmRx, 10~50km
RC952-FXE1-SS25	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1550nmTx 1310nmRx, 10~50km

Fiber Optical Interface Characteristics

Part Number	Connector Type	Wavelength(nm)	Power(dBm)	Receiver Sensirivity(dBm)	Typical Range (Km)	Attenuation(dB/ Km)
RC952-FX-M	DSC-RJ45	1310	-18~-14	<-29	0~2	3
RC952-FX-S1	DSC-RJ45	1310	-15~-8	<-34	0~25	0.5
RC952-FX-S2	DSC-RJ45	1310	-5~0	<-34	10~60	0.5
RC952-FX-S3	DSC-RJ45	1550	-5~0(DFB)	<-36	15~120	0.25
RC952-FX-SS13	SC/PC-RJ45	1310	-12~-3	<-30	0~25	0.5
RC952-FX-SS15	SC/PC-RJ45	1550	-12~-3	<-30	0~25	0.5
RC952-FX-SS23	SC/PC-RJ45	1310	-5~0	<-32	10~50	0.5
RC952-FX-SS25	SC/PC-RJ45	1550	-5~0	<-32	10~50	0.5

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