

ITT-RC10952 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.

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.

ITT-RC10952 provides protocol conversions

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.

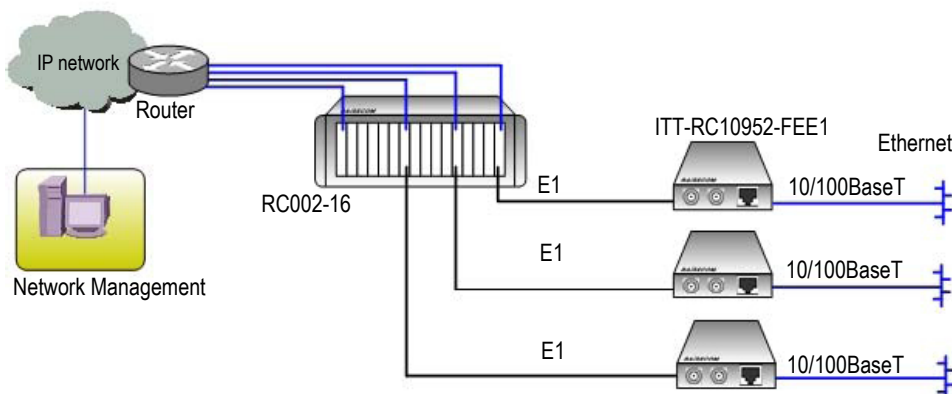
Completed alarm message, analysis and alarm capability for faults in E1 link are provided; the fault point can be easily detected and located.

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 ITT-RC10952 that is always situated at customer promise can also be managed and monitored.

APPLICATION



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:

Compliant 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(H)*155(D)(mm)(modular)

Environment: 0~45 degrees Centigrade operating
5%~90% humidity non-condensing

Application

In the application. Modular unit ITT-RC10952-FEE1 is installed in RC002-16 16-slot chassis at central site. Standalone unit (ITT-RC10952-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. ITT-RC10952-FEE1 supports MPLS frame. ITT-RC10952-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
ITT-RC10952-FEE1	Standalone, 10/100Mbps-4*E1 interface converter, remote SNMP-management, 19" 1U chassis, AC 115V or 230V/DC -48V
ITT-RC10952-FXE1-M	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1310nm, 0~2km
ITT-RC010952-FXE1-S1	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1310nm, 0~25km
ITT-RC10952-FXE1-S2	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1310nm, 10~60km
ITT-RC10952-FXE1-S3	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, dual-strand fiber, 1550nm, 15~120km
ITT-RC10952-FXE1-SS13	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1310nmTx 1550nmRx, 0~25km
ITT-RC10952-FXE1-SS15	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1550nmTx 1310nmRx, 0~25km
ITT-RC10952-FXE1-SS23	Module, 10/100Base-FX to transparent or fractional E1 interface converter, SNMP-management, single-strand fiber, 1310nmTx 1550nmRx, 10~50km
ITT-RC10952-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)
ITT-RC10952-FX-M	DSC-RJ45	1310	-18~-14	<-29	0~2	3
ITT-RC10952-FX-S1	DSC-RJ45	1310	-15~-8	<-34	0~25	0.5
ITT-RC10952-FX-S2	DSC-RJ45	1310	-5~0	<-34	10~60	0.5
ITT-RC10952-FX-S3	DSC-RJ45	1550	-5~0(DFB)	<-36	15~120	0.25
ITT-RC10952-FX-SS13	SC/PC-RJ45	1310	-12~-3	<-30	0~25	0.5
ITT-RC10952-FX-SS15	SC/PC-RJ45	1550	-12~-3	<-30	0~25	0.5
ITT-RC10952-FX-SS23	SC/PC-RJ45	1310	-5~0	<-32	10~50	0.5
ITT-RC10952-FX-SS25	SC/PC-RJ45	1550	-5~0	<-32	10~50	0.5