

RICi-SE



Fast Ethernet over Serial Line Intelligent Converter



EtherAccess

FEATURES

- Connect Fast Ethernet LANs over V.35 or X.21 circuits
- Wire-speed packet forwarding
- Four-level QoS based on four VLAN priority queues as per 802.1p
- Plug-and-play network integration using DHCP client
- AC/DC autodetect
- Inband and out-of-band management access via:
 - ASCII terminal
 - Web browser
 - Telnet
 - SNMP
 - RADview-Lite

DESCRIPTION

- RICi-SE is an intelligent converter connecting Fast Ethernet LANs over V.35 or X.21 circuits. They enable service providers and ISPs to supply transparent Ethernet services, without interfering with user traffic.
- RICi-SE includes RAD's unique EtherAccess features, which enable service provisioning and carrier backhaul applications over low and high speed SDH/SONET and PDH circuits from fractional and full E1/T1, E3/T3 over STM-1/OC-3, STM-4/OC-12 to Ethernet networks.
- RICi-SE has one V.35 or X.21 port and one 10/100BaseTx port. Packets are forwarded from the Ethernet network to the serial port at wire speed.
- The 802.1p priority scheme enables users to define four different QoS levels, according to the application requirements.

- The Fast Ethernet bridge handles 1600-byte frames, supporting VLAN applications and other protocols requiring large frame sizes. In filter mode, the bridge learns MAC addresses and filters local traffic, and in transparent mode it forwards any received packet.
- VLAN stacking tags user and management traffic to different VLANs, thus maintaining the user LAN settings intact, and fully separating user traffic from management data.
- The DHCP client automatically obtains the IP address, IP mask and default gateway, minimizing installation time.

MANAGEMENT

- RADview-Lite, RAD's SNMP-based element management software, provides SNMP traps, status polling, and configuration download. Remote element management is available in RADview-Lite through ConfiguRAD Web-based application, or by Telnet.
- The devices are managed inband from the Fast Ethernet user port or via the X.21/V.35 interface. Management traffic and user Ethernet traffic are transported together on the same Ethernet flow, separated by different VLANs, thus ensuring traffic security.

DIAGNOSTICS

- A built-in ping utility checks IP connectivity by pinging remote IP hosts.
- A trace-route application quickly traces a route from RICi-SE to any other network device.

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SPECIFICATIONS

SERIAL INTERFACE

- **Number of Ports**
One
- **Type**
X.21, V.35
- **Data Rate**
Up to 2.048 Mbps
- **Max Frame Size**
1600 bytes
- **Connector**
X.21: 15-pin D-type, female
V.35: 34-pin, female

WAN PROTOCOL

- **Type (DTE)**
 - RAD proprietary HDLC compatible with RAD products
 - Industry-standard HDLC

ETHERNET INTERFACE

- **Number of Learned MAC Addresses**
Up to 2048
- **Type**
10/100 Mbps, autonegotiation, full/half duplex
- **Compliance**
Conforms to the relevant sections of IEEE 802.3 and 802.3u
- **Connector**
RJ-45

CONTROL INTERFACE

- **Interface Type**
RS-232/V.24 (asynchronous DCE)
- **Data Rate**
9.6, 19.2, 38.4, 57.6, 115.2 kbps

GENERAL

- **Indicators**
PWR (green) – Power status
TST (yellow) – Test status
ALM (red) – Alarm status
LOS (red) – Loss of signal
ETH LINK (green) – Ethernet link status
- **Power**
AC/DC: 100–240 VAC or –48 to –60 VDC
- **Power Consumption**
5W max
- **Physical**
Height: 43.7 mm (1.7 in)
Width: 220 mm (8.6 in)
Depth: 170 mm (6.7 in)
Weight: 0.5 kg (1.1 lb)
- **Environment**
Temperature: 0°–50°C (32°–122°F)
Humidity: Up to 90%, non-condensing

ORDERING

RICI-SE/C

Fast Ethernet over serial line intelligent converter

C Specify serial interface type:

X.21 for X.21 serial interface (F)

V.35 for V.35 serial interface (F)

SUPPLIED ACCESSORIES

AC power cord
DC adapter plug

CBL-HS1/X21/CROSS

Cross cable for X.21 connection. (if X.21 interface was ordered)

CBL-HS1/V.35/CROSS

Cross cable for V.35 connection (if V.35 interface was ordered)

OPTIONAL ACCESSORIES

CBL-DB9F-DB9M-STR

Control port cable

RM-33-2

Hardware kit for mounting one or two units in a 19" rack

APPLICATION

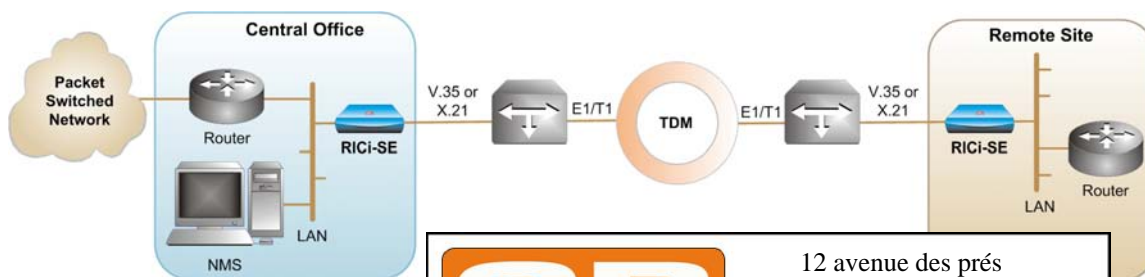


Figure 1. Providing

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