# RIC-E3/ETH, RIC-T3/ETH

# 10/100BaseT to E3/T3 Interface Converters



# **FEATURES**

- Interface converters connecting 10/100BaseT LANs over E3/T3 services
- Cost-effective alternative to packet-based E3/T3-to-LAN routing interfaces
- Built-in bridge and VLAN support operating at Fast Ethernet rates
- Fault propagation of E3/T3 error conditions to Ethernet port
- User-selectable multicast and broadcast prevention to WAN
- Plug-and-play LAN connection
- Alarm relay for the transmission of line fault reports
- Fully compatible with IEEE 802.3U

# **DESCRIPTION**

- RIC-E3/ETH and RIC-T3/ETH interface converters, offer a simple, cost-effective connection between E3/T3 services and 10/100BaseT LANs.
- RIC-E3/ETH and RIC-T3/ETH transparently connect unframed E3/T3 and 10/100BaseT links, utilizing the full E3/T3 bandwidth without heavy overhead associated with packet or cell-based technologies.
- Built-in Ethernet bridge with VLAN support enables virtual LAN connectivity.
- The Ethernet interface module performs frame filtering and forwarding at the Fast Ethernet maximum theoretical rate of 150,000 frames per second. The bridge causes no LAN delays.
- The converters provide full control over the multicast and broadcast messages, which can be forwarded from LAN to WAN or blocked from it.
- RIC-E3/ETH and RIC-T3/ETH support autonegotiation, for plug-and-play Ethernet connection without any additional configuration.

- The units feature fault propagation. If a link failure is detected, the user port is shut down.
- The front and back panel LEDs indicate AIS and LOS line conditions and provide information on the status of the Ethernet link.
- A dry contact alarm relay port is supported via a rear panel 9-pin connector. The port enables relay of the major and minor alarm conditions using Normally Open and Normally Closed operation of the connector pins.

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## 10/100BaseT to E3/T3 Interface Converters

### **SPECIFICATIONS**

#### E3/T3 INTERFACE

- Standard E3 or T3, unframed
- Impedance  $75\Omega$ , unbalanced
- Connectors Two shielded BNC, unbalanced

#### ETHERNET INTERFACE

LAN Table 1,000 MAC addresses with 5-minute automatic aging

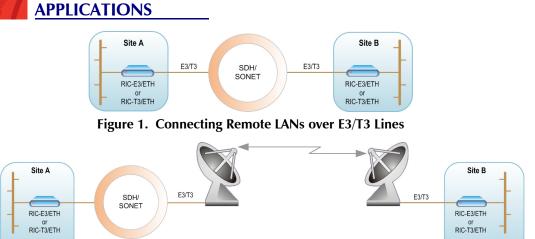
- Filtering and Forwarding Up to 150,000 frames per second
- Max Frame Size 1536 bytes
- Buffer 320 frames
- Delay
  1 frame
- Standard 10/100BaseT IEEE 802.3/ Ethernet V.2
- Transmission Line 4-wire, category 5 UTP, 19 AWG to 26 AWG
- Connector RJ-45

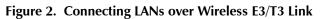
#### GENERAL

#### • Indicators

- PWR (green) Power is ON ELECTRICAL LOW (red) – E3/T3
- input is below G.703 level ELECTRICAL AIS (yellow) – E3/T3 interface received Alarm Indication Signal
- ETH LINK (green) LAN is connected to the Ethernet interface
- ETH ACT (yellow) LAN is receiving/transmitting data ETH 100 (green) – LAN is
- operating at 100 Mbps
- Timing
  - Receive: recovered from the receive clock signal from the E3/T3 interface
  - Internal: provided by internal crystal oscillator (±25 ppm)
  - **Alarm Port** 9-pin, D-type, female
- Power
  AC: 100 to 240 VAC, 50 to 60 Hz, 15 VA
  DC: -40 to -60 VDC, 9W
- **Physical** Height: 44 mm (1.7 in) Width: 194 mm (7.6 in) Depth: 243 mm (9.6 in) Weight: 1.4 kg (3.0 lb)
- Environment

Temperature: 0–50°C (32–122°F) Humidity: Up to 90%, non-condensing







#### RIC-E3/ETH/\*

10/100BaseT to E3 interface converter

#### RIC-T3/ETH/\*

10/100BaseT to T3 interface converter

\* Specify power supply:
 AC for 100 to 240 VAC
 DC for -40 to -60 VDC

#### OPTIONAL ACCESSORIES

#### RM-9

Hardware kit for mounting one or two RIC-E3/ETH, RIC-T3/ETH units in a 19-inch rack



132-100-05/06

Specifications are subject to change without prior notice.