

E1 to Ethernet Protocol Converter

This protocol converter bridges E1 and Ethernet networks, providing 10/100Base-T Ethernet data transmission on an E1 channel. The device supports E1 to Ethernet protocol conversion with options for BNC/RJ45 interfaces.



ADDITIONAL IMAGES



Product Overview

High-Performance E1/Ethernet Bridging

This FPGA-based protocol converter provides a reliable bridge between framed E1 and 10/100Base-T Ethernet interfaces, enabling cost-effective data transmission over existing E1 infrastructure. Designed for both local and remote interconnectivity, it features advanced self-learning capabilities and comprehensive loop-back testing to simplify project deployment and daily maintenance. It is an ideal solution for extending Ethernet networks using PDH, SDH, or microwave channels.

Technical Specifications

E1 Interface Capabilities

- Framed E1 interface
- 64K-2048K configurable rate
- Any timeslot support
- 75 Ohm (unbalance) and 120 Ohm (balance) impedance

Clock Types

E1 Master Clock • E1 Line Clock

Loop Back Modes

- E1 interface Loop Back (ANA)
- Ethernet interface Loop Back (DIG)
- Remote Ethernet interface Loop Back (REM)

Ethernet Interface

10/100Base-T, Auto-Negotiation, AUTO-MDIX, Half/Full Duplex

Performance Metrics

Key Performance Metrics

2036 Bytes

Max Jumbo Frame

4096 Entries

MAC Address Table

Management & Monitoring

Management & Diagnostics

Feature	Description
Network Management	SNMP Support
OAM	Non-intrusive management data
Status Indicators	Power, E1 signal loss, Link status
Reliability	Ethernet monitor self-reset