

## E1 8 Port Network Extender

ENE2084-S, ENE2084-P, ENE2084-KIT

### Eight Port Loop Bonding E1 Network Extender

#### Overview

The ENE2084 is a part of Paradyne's Ethernet Everywhere solution, allowing Carriers, ISPs and PTTs to deliver Ethernet services to virtually anywhere, using standard T1 or E1 circuits. The ENE2084 offers up to 16Mbps of extremely reliable and efficient Ethernet service over the WAN, delivering the bandwidth required to support a sophisticated new generation of small and medium business customers.

Because the ENE2084 uses standard E1, it can go almost anywhere, and because it uses Ethernet instead of ATM or Frame Relay, it's ready to support 100% of the high-demand IP applications—including video conferencing, digital video surveillance, IP telephony and more. It uses Ethernet for all data transport, and is optimized for the delivery of Internet Protocol (IP) traffic.

The ENE2084 features eight E1 ports, each capable of up to 1.5 Mbps bandwidth, and an integrated 4-port 10/100 Ethernet Switch. When used with any Paradyne compatible product, from one to eight ports may be used together to deliver high-speed bandwidth at any given distance. The loop bonding technology used is automatic, efficient and resilient, providing configuration-free deployment and a greater total throughput than traditional E1 circuits.

The ENE2084 can be used in pairs with any other Paradyne E1 Network Extender product, or can be connected to Paradyne's 12000/4000 series of IP Broadband Loop Carriers (BLCs). Either way, the ENE2084 supports important Ethernet features such as 802.1Q VLANs, Built-in security features, and the advanced QoS and traffic control features that come with Paradyne's Multimedia Traffic Management.

#### Features

- Configuration-free operation minimizes truck roll/engineering site visits
- Full support for Multimedia Traffic Management, providing sophisticated IP QoS and application-aware traffic control.
- Web-based Management
- Connects directly to any RJ45 10/100 Mbps Ethernet port via an integrated 4-port switch
- Can be used in conjunction with Paradyne's 12000 and 4000 IP Broadband Loop Carriers, or in point-to-point configurations
- Automatic load balancing and fail-over on bonded ports for optimum throughput and redundancy
- Environmentally hardened for use in extreme conditions and remote cabinets

#### Benefits

- Provides the Simplicity and Cost Benefits of Ethernet over WAN connections
- Enables providers to deliver Ethernet to anywhere that can be served by a T1 or E1 circuit (T1 requires TNE1584)
- Full application control and QoS, including traffic separation and security, enabling multiple networks to be securely provisioned from a single TNE

## Specifications

### Dimensions

1.25" (3.2cm) High x 8.5" (21.6cm) Wide x 4.75" (12.1cm) Deep

### Weight

1.0 lbs (0.45 kg)

### Power

-36VDC to -72VDC  
Optional AC to DC converter also available

### Interfaces

8 x E1 RJ48C 8-position jack(Un-channelized E1)  
4 x 10/100 Ethernet RJ45

### Standards Support

IEEE 802.3 Ethernet  
IEEE 802.1p Priorities  
IEEE 802.1Q VLAN  
ITU G.704 E1  
DiffServ  
TOS

### Protocol Support

Transparent 802.1D Bridging  
E1 Line Code: HDB3, AMI  
Internet Protocol  
Loop Bonding

### Management

SNMP  
CLI  
Web Based Management

### Bandwidth/Distance

Up to 2.0 Mbps per E1 port (up to 16 Mbps loop bonded)  
Standard E1 Circuits

### Regulatory Compliance

EMC: FCC Part 15; ICES-003; EN 300 386-2; CE Marking  
Safety: UL1950, CSA C22.2 No. 950; EN60950; IEC950; CE Marking

### Operating Requirements

Temperature: 32°F to 122°F (0°C to 50°C)  
Non-operating temperature: -40°F to 158°F (-40°C to 70°C)  
Humidity: 5% to 95%, non-condensing  
Altitude: -200ft to 16,500ft (-60m to 5,000m)

## Ordering Information

ENE2084-KIT-DC	Eight Port E1 Starter Kit Includes (2) ENE2084 Units
ENE2084-S-DC	Eight Port Loop Bonding E1 Network Extender for -48VDC
ENE2084-P-DC	Eight Port Loop Bonding E1 Network Extender for -48VDC
ENE2084-KIT-ACEU	Eight Port E1 Point to Point Kit Includes (2) ENE2084 units and European AC Power Supplies
ENE2084-KIT-ACUK	Eight Port E1 Point to Point Kit Includes (2) ENE2084 units with UK AC Power Supplies
ENE2084-S-ACEU	Eight Port E1 Subscriber Unit with European Power Supply
ENE2084-S-ACUK	Eight Port E1 Subscriber Unit with UK Power Supply
ENE2084-P-ACEU	Eight Port E1 Provider Unit with European Power Supply
ENE2084-P-ACUK	Eight Port E1 Provider Unit with UK Power Supply



For additional information on this or any Paradyne product or service, contact the office nearest you or dial 1.800.727.2396 (USA and Canada) or 1.727.530.8623; fax 1.727.530.8216. For international locations, visit the Paradyne web site at <http://www.paradyne.com>