



Loop-IP 6100 High Speed Ethernet Access

Description

The Loop-IP 6100 High Speed Ethernet Interface provides connectivity from high speed 100 Base-T full duplex Ethernet to either DS3 or E3 networks.



Features

- 100 Base-T full duplex Ethernet in accordance with IEEE 802.3u via 1 RJ45 port
- Throughput data rate of 42/32 Mbps (DS3/E3)
- Succinct status and diagnostic features using LEDs and a built-in self-test algorithm
- Alarm Relay
- Supports VLAN transparency (no VLAN processing)
- Supports MPLS (Multi Protocol Label Switching) transparency
- Supports ISL (ISL inter-link switching) transparency
- Support Auto Negotiation
- Support IPX transparency
- Small size (HxWxD: 44.5 x 190.5 x 165mm/1.75 x 7.5 x 6.5in)
- Interfaces to a standard DS3/E3

Ordering Information

To specify options, choose from list below:

| Model | Description |
|-------------------|--|
| Loop-IP 6100-DS3 | DS3 Ethernet Interface Unit |
| Loop-IP 6100-E3 | E3 Ethernet Interface Unit |
| Loop-IP 6100-DS3R | DS3 Ethernet Interface Unit with Alarm Relay |
| Loop-IP 6100-E3R | E3 Ethernet Interface Unit with Alarm Relay |



IP 6100 Front Panel without Alarm Relay



IP 6100 Front Panel with Alarm Relay



Loop-IP 6100 High Speed Ethernet Interface Product Specification

System Parameters

Ethernet Data Rate (Typical) 42/32 Mbps (DS3/E3)
Supports VLAN transparency (no VLAN processing)
Supports MPLS (Multi Protocol Label Switching) transparency
Supports ISL (ISL inter-link switching) transparency

Data Interface

Full Duplex IEEE 802.3u
100 Base-Tx
Flow Control IEEE 802.3x*
Supports Auto Negotiation (for 100M only)
Supports IPX
1 x RJ45 Port

High Speed Interface

E3: ITU-R G.703
DS3: Bellcore TR-303
B3ZS for DS3, HDB3 for E3
BNC, 75 ohm

Indicators

| | |
|-------------------------|-----|
| Power On Status | LED |
| DS-3 Link Status | LED |
| Ethernet Traffic Status | LED |
| Ethernet Link Status | LED |

*Note: EIU performance is optimized when 802.3x is used.

Electrical

| | |
|--------------------|-----------------------------|
| Input Voltage | ±22 to 72 Vdc |
| Polarity (DC) | Positive or negative ground |
| Power Consumption | <5W |
| Protection Circuit | 3.15A Slow-Blow Fuse |

Mechanical

| | |
|--------|----------------|
| Width | 190.5mm/7.5 in |
| Height | 44.5mm/1.75 in |
| Depth | 165mm/6.5 in |
| Weight | 1.4Kg/3 lbs |

Operating Environment

| | |
|---------------------|-----------------------|
| Altitude | Max. 5000m/15,000 ft. |
| Ambient Temperature | -10°C to +55°C |
| Reliability | Unit MTBF 15 Years |
| EMC | FCC Part 15 Class 2 |
| Safety | UL 1950 |
| Operation | ETS 300 019 Class 3.2 |
| Storage | ETS 300 019 Class 1.2 |
| Transportation | ETS 300 019 Class 2.3 |

Compliance

| | |
|---------|--|
| For E3 | EMC (EN55022, EN55024), Safety EN60950 |
| For DS3 | EMI Fcc15 class A, Safety UL1950 |

Application Illustration



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