



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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