64E1 to Gigabit Ethernet GFP Convergence Protocol Converter

Product Overview

GFP convergence protocol conversion system converts two 1000M Ethernet ports for communication or direct connect to 64 channel E1 through the 4psc 16E1 interface card. This converter has function of a unified access, converging , switching and management for TDM and broadband services. It caters to the convergence trend between MAN and data service in various private network. This series support GFP protocol, it can be connected to productions following the same standard produced by other manufactures.

Main Features

The 1U and 19 inches structures are available, which can save machine room space greatly, decrease networking wiring, optimize network structure and improve the stability and performance of system.

It supplys 4*16E1 interface card to connect 64 channel E1.

The two 1000M Ethernet data converging ports can support GE electrical port (RJ45) and GE optical port (SFP) modes; The Ethernet supports 10/100M/1000M, semi-duplex, full-duplex and adaptive modes with VLAN, Q-in-Q and PAUSE functions.

The CONSOLE interface and standard SNMP network management interface which support WEB view are provided to conduct out-band Ethernet management and in-band E1 management, facilitating the local and remote software upgrade and maintenance of equipment by users.

The internal E1 channel can be set to non-frame and frame modes, and the frame mode supports N*64K sub-rate access; and each E1 supports local/remote loopback, and pseudo-random code testing function; data package receiving, sending and flow statistics functions can be conducted for each individual E1; .

The device support GFP protocol, it can be connected to productions following the same standard produced by other manufactures.

It can support SFP modular parameter performance monitoring and management;

It can implement the Trunk function of 1000M Ethernet;

It supports dual-power redundant standby to implement combined AC220V/48V dual-power backup as required.

Specifications

E1 interface

Bit rate:2.048Mb/s±50ppm

Code format: HDB3

Impedance: 75 Ohm is default, Optional 120 Ohm

Jitter transfer, Jitter tolerance comply with ITU-T G.703、G.704、G.823 recommendations

Gigabit Ethernet interface

Connector: RJ-45

Auto-negotiate: Enable

Speed: 10M/100M/1000M

Duplex: Full/half duplex

Bandwidth: 1000Mbps

Standard: IEEE 802.3, IEEE 802.3u, IEEE 802.ab, IEEE 802.3x

Ethernet fiber-optical interface (optional)

Rate: 1.25Gb/s

standard: ITU-T G.957/G.958

wavelength: 1310（optional）

The average light power:

≥-8dBm（single mode、1310、LED）

≥-25dBm（multi-mode、1310、LED）

Sensitivity:≤-36dBm

Dynamic range of received optical power:≥25dB

Optical port type: SFP；Single/multiple mode (optional)

Voltage: AC220V or DC-48V

Fluctuant voltage:180 VAC~260 VAC Or -38 VDC ～ - 72 VDC

Power consumption: < 20W

Working condition: temperature:-20℃ ～ +70℃, Humidity: 95%

Dimension:448mm*313.5mm*44mm

Typical Application: