

# Ethernet and TDM services over STM-1

## SDH155B



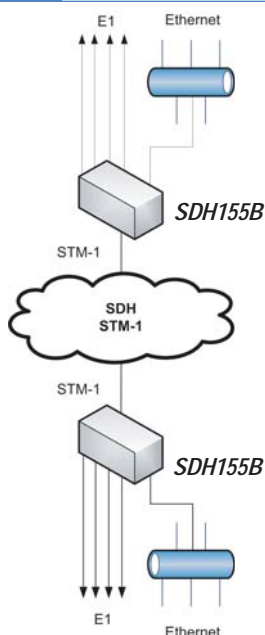
### 4-port Ethernet/ STM-1 Converter

**SDH155B** is a stand-alone converter that enables simple and efficient connection of 4 ports Fast Ethernet 100BaseT or 4 x E1 2.048M traffic over STM-1 Fiber optic Interface lines. **SDH155B** serves as cost-effective alternative to ATM devices and routers. The **SDH155B**'s packet-over-SDH encapsulation protocol enables virtually total utilization of SDH payload traffic, since only a small header is required. **SDH155B** supports VLAN bridging, flow control and backpressure, according to IEEE802.3x requirements.

### Features

- Connects 10/100Base-T Ethernet LANs over STM1 line
- 1U high stand-alone or rack mount units
- Selectable fiber optic or electrical interfaces
- Complies with G.957 Standard
- Supports SFP or 1x9 fiber transceiver Module
- Supports Virtual concatenation enables configuring the bandwidth of the IP channel in increments of 2Mbps (VC-12)
- Support SDH standards of Generic Framing Procedure (GFP) or Link Access Procedure (LAPS)
- Supports 1 port 10/100 Base-TX Ethernet on board, with a slot for optional 4 x E1 Module or 4 x 100Mbps Ethernet module
- Supports Bandwidth control over Ethernet in increments 2 Mbps, up to 100Mbps wire-speed
- Supports AC or DC power supply
- Supports one Order Wire phone port
- Supports console and SNMP management

### Application



### Specifications

#### General Specifications

LEDs	PWR, SD, LOS, LOF, LOP, MS-AIS, P-AIS & P-RDI, LNK/ACT, FDX & 100, SYS & CLKMODE	
Power	AC	90 — -264VDC
	DC	-36 — -72VDC
Environment	Temperature	0 — 40°C (Operating); -20— 65°C (Storage)
	Humidity	0 — 90% non condensing
Power Consumption	10W	
Dimensions(WxDxH)	220mm x 285mm x 44.5mm	
Weight	1.5Kg	
Compliance	TBA	
MTBF	TBA	

#### Fiber Optical Port

Standard	ITU-T G.957
Rate	155.52 Mbit/s ± 20 ppm
Wavelength	1310nm: 1550nm
Operating wavelength	1261—1360nm
Coverage	1480 ~ 1580nm
Output Power	-15 — -8dBm
Sensitivity	-36dBm
Fiber Connector type	Standard SC/ SFP
Fiber Optical type	Single model optical fiber 9/125um

#### Electrical Port

Standard	ITU-T G.703
Rate	2.048 Mbit/s ± 20 ppm
Output Peak-to-peak voltage	3.0 ± 0.1V
Sensitivity	-15dBm
Connector Type	Standard BNC

#### 100Base-Tx Port (mainboard)

Standard	IEEE802.3u
Rate	100MbpsFull-duplex and auto-adapted
Support	Auto-MDIX Function
MACAddress table size	1024
Maximum Ethernet frame	1536 Bytes

#### 100Base-Tx Port (sub-card)

Standard	IEEE802.3
Rate	100MbpsFull-duplex
Support	Auto-MDIX Function
Maximum Ethernet frame	1600 Bytes

#### G.703-E1Port (sub-card)

Standard	G.703
Rate	2.048Mbps

### Ordering Info

#### Master Unit:

SDH155B/AC	100BaseT RJ-45 to STM-1 155M; 1310nm, 30km, 21dBm, SM, SC; Internal AC power (100V ~240V AC)
SDH155B/DC	100BaseT RJ-45 to STM-1 155M SC; 1310nm, 30km, 21dBm, SM, SC; Internal -48 VDC power ( ±36 to ±72VDC)