

# Ethernet and TDM services over Fiber

## SDH155A

### SDH 155Mbps Multi-Service Access Equipment

The *SDH155A* provides an economical MSAP multiplexing solution for SDH network services. By Ethernet, E1 different operational data packets directly encapsulated in the 155M SDH transmission channels, to the existing SDH network to transmit Ethernet data and E1 data provides a simple and effective method of application. The *SDH155A* is 1U high, 19" equipment, compact structure, high integration, user-friendly environment in various installation. The equipment with various LED warning lights instructions and status monitoring, It can also monitor network management system through more state statistical information and warning instructions. It also provides a simple and efficient connection of 4 ports Fast Ethernet 100BaseT or 4 x E1 (2.048M) traffic over STM-1 Fiber optic Interface lines. It serves as cost-effective alternative to ATM devices and routers. Its packet-over-SDH encapsulation protocol enables virtually total utilization of SDH payload traffic, since only a small header is required.



4\* E1 Module



4\* Ethernet Module

### Features

- Comply with ITU-T G.957 STM Standard
- Supports Two SDH 155M Uplink Fiber Optical Ports
- Supports ADM work module and TM work module
- Supports Internal Clock and Recover Clock
- Supports Local Loop and To Remote Loop
- Supports test of Virtual concatenation Channels and separate VC-12 Channels
- Supports complete SDH overhead processing functions
- Supports trace byte set and line performance monitoring alarm
- Supports Virtual concatenation of VC-12
- Supports ≤50 unit random Virtual concatenation and 16ms can be tolerated routing delay
- Supports SDH Standards of GFP or LAPS
- Supports with 4 slots for optional 4\*10/100Mbps Ethernet module or 4\*E1 module
- Supports IEEE802.1Q Tag base VLAN
- Supports IEEE802.1ad Q-in-Q VLAN
- Supports IEEE802.1p QoS
- Supports all the 100 Base-Tx Ethernet interface to work independently adjustable bandwidth, 2M particles, Each port provides 1 MB of cache, All Ethernet interfaces support High Speed 100 Mbps, full-duplex work
- Supports AC, DC, AC+DC, AC+AC, DC+DC power supply
- Supports a service telephone ,can be point-to-point call addressable
- Supports Console 、WEB and SNMP (Optional accessories) management

### Specifications

<b>Fiber Optical Module</b>	
Standard	ITU-T G.957
Type	Single Mode, 9/125um
Connector	LC/SFP
Rate	155.52 Mbps ± 20 ppm
Operating Wavelength	1261~1360nm ; 1480~1580nm
Convergence	
Output Power	-15 ~ -8dBm
Sensitivity	-36dBm
<b>4*Ethernet Interface Module</b>	
Standard	IEEE 802.3 & 802.3u
Output Peak-to-peak voltage	1.0 ± 0.1V
Connector	Shielded RJ-45
Data Rate	100Mbps; Full Duplex and auto-adapted
VLAN support	Frame-through
Supports	Auto-MDIX function & MAC address filtering function
MAC address	1024 Bytes
Maximum Ethernet Frame	1536 Bytes
Data Cache	1MB
<b>4*G.703 E1 Interface Module</b>	
Standard	ITU-T G.703
Rate	2.048Mbps
<b>General Specifications</b>	
LEDs	LOS*2, LOF*2, ALM & SYS
Power	AC 165~264V, 60 ± 3Hz
	DC -36 ~ -72VDC
Environment	Temperature 0 — 40°C (Operating)
	-20 — 65°C (Storage)
	Humidity 0 — 90% non condensing
Power Consumption	30W
Dimensions(WxDxH)	440mm x 300mm x 43mm (WxDxH)
Weight	5Kg

### Ordering Information

- SDH155A-CH-AC 1U 19", 4-slot rack chassis with single AC power
- SDH155A-CH-DC 1U 19", 4-slot rack chassis with single DC power
- SDH155A-CH-AD 1U 19", 4-slot rack chassis with single AC power and single DC power as redundancy
- SDH155A-CH-AA 1U 19", 4-slot rack chassis with two AC power, one AC power as redundancy
- SDH155A-CH-DD 1U 19", 4-slot rack chassis with two DC power, one DC power as redundancy
- SDH155A-E1/RJ45 4-channel G.703 E1 RJ-45 interface card
- SDH155A-ET100 4-channel 10/100Base-TX (RJ45) interface card