

OPCOM3101-155 STM-1 ADM and TM

OPCOM3101-155 carrier-class SDH STM-1 multiplexer delivers traditional PDH services over existing SDH network. OPCOM3101-155 devices allow service providers to extend their network towards remote customers, thereby enlarging their customer reach and increasing revenues without the expenses associated with deploying high-end ADMs, which add unnecessary cost. The 19" 1U high OPCOM3101-155 connectivity for 63 E1s, it complies with all SDH standard. OPCOM3101-155 is designed for the requirement of carriers and service providers, it offers a high level of reliability and manageability. OPCOM3101-155 is SDH STM-1 multiplexer with the simplicity and low cost, significantly reducing operating and capital expenses.

Feature

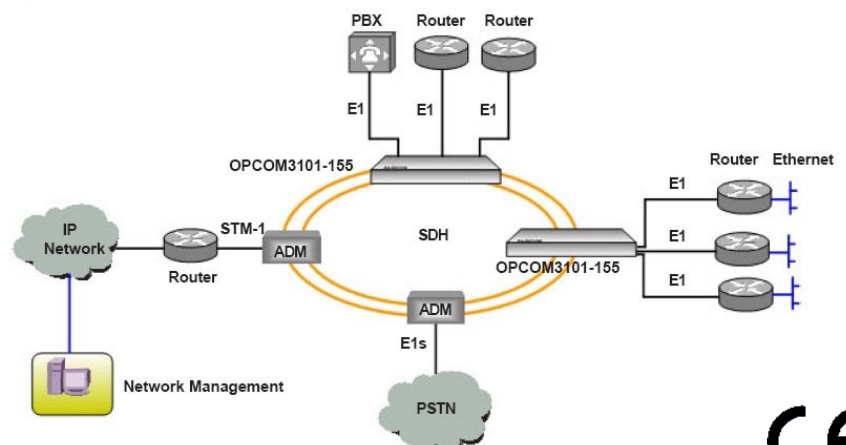
- Provide 2 STM-1 interfaces, with options of either two individual STM-1 or 1+1 path protection.
- Provide 63 E1 interfaces.
- Support ALS (Automatic Laser Shutdown) function
- Support 126x126 VC12 non-blocking cross capability.
- It can be configured TM or ADM.
- Support point-to-point, chain and ring topology, provide 1+1 low path protection, re-routing time is less than 50ms.
- Clock mode supports holding, locking, free running, complying with G.813 standard.
- It provides SNMP network interface and Console interface, and ECC embedded channel, supports local and remote software on-line upgrade.
- Provide alarm and performance monitor.
- Provide local and remote loop-back function of optical interface and E1 interface, it is convenient for maintenance.

Typical Application

Point-to-point: OPCOM3101-155 unit can be deployed in point-to-point application, connecting BTS and BSC over fiber, using existing SDH network resource, to distance up to 120km. OPCOM3101-155 has network management function, administrator can manage and monitor the whole network through the network platform. The solution is a cost-effective, user-friendly way for wireless users.



In the ring topology network, OPCOM3101-155 is configured Add/Drop Multiplexer (ADM). Thanks to the flexibility OPCOM3101-155 offers. It can deliver 63E1s service to CPE over SDH and connect to router with E1 interface for internet access to multi tenants. It is an ideal solution for carrier to use existing SDH network resource.



Specification

Basic

Network interface: provide 2 STM-1 interfaces, with options of either two individual STM-1 or 1+1 path protection.

Customer interface: provide 63 E1 interface

Advanced

Network Element Type: TM, ADM

Management: SNMP/Telnet/Console

Network management channel: in-band/out-of-band

Update: support local and remote on-line update.

Performance monitor: Support end-to-end performance test and local/remote fault alarm, optical interface and E1 interface provide loop back function of line and equipment, convenient for equipment maintenance.

Ambience:

Temp: 0~50 degrees centigrade operating

Humidity: 5~95% no condensing

Power Supply: AC P.S: 180~260V, DC P.S: -48V/+24V

Consumption: <15W

Dimension and Weight:

Dimension: (W×D×H)440/266/44(mm)

Weight <5kg

Compliant with:

SDH/SONET interface standard: ITU-T G.707

E1 interface: ITU-T G.703/ G.823



Fiber Optical Interface Characteristics

Part Number	Connector Type	Wavelength(nm)	Power(dBm)	Receiver Sensitivity(dBm)	Typical Range(km)	Attenuation(dB/km)
-S1	DSC	1310	-15~-8	<-34	0~25	0.5
-S2	DSC	1310	-5~0	<-34	10~60	0.5
-S3	DSC	1550	-5~0(DFB)	<-36	15~120	0.25
-SS13	SC/PC	1310	-12~-3	<-30	0~25	0.5
-SS15	SC/PC	1550	-12~-3	<-30	0~25	0.5
-SS23	SC/PC	1310	-5~0	<-32	10~50	0.5
-SS25	SC/PC	1550	-5~0	<-32	10~50	0.5

Ordering Information

OPCOM3101 1U compact SDH STM-1 Multiplexer, dual 155Mbps SDH optical up-link

Part Number	Description
OPCOM3101-155-X/Y	X means M, S1, S2, S3, SS13, SS15, SS23, SS25 (Fiber Optical Interface of STM-1) Y means power supply of AC/DC24/DC48
CBL-E1-S-DB37F/8RJ45-2.5M	Cable of DB37 female connector to 8 RJ45 120ohm balanced connector, 2.5m
CBL-E1-S-DB37F/16BNCM-2.5M	Cable of DB37 female connector to 16 BNC 75ohm unbalanced male connector, 2.5m