



OPCOM3107 STM-1 ADM

Compactness, cost-efficiency and versatility highlight the OPCOM3107, which is good suited for transmit voice and data. The service offered range from traditional E1 to new service such as Fast Ethernet. OPCOM3107 provides fixed 16 ports E1, 4 ports Fast Ethernet and 1 combo GE. For Ethernet over SDH service, the introduction of standard Generic Framing Procedure (GFP) mapping, Link Access Procedure SDH (LAPS) virtual concatenation, and Link Capacity Adjustment Scheme (LCAS) for dynamic bandwidth allocation is used by OPCOM3107. These features enable OPCOM3107 is next-generation STM-1 access equipment.



OPCOM3107-16E1-BL

Highlights

- Enhanced Ethernet** Support 1 combo GE port and 4 Fast Ethernet ports
- External clock** Combine the external card to support 2Mbit and 2MHz external clock function and ports
- Alarm** Combine with 1 alarm output and 1 alarm input interfaces.

Features

Interfaces	Two SDH STM-1 interface with SFP modules, can be configured to 2 independent line or 1+1 mode, redundant power supply 16 E1 balanced interfaces 1 combo GE port 4 FE electrical interfaces with RJ45 1 external clock interface with RJ45 1 SNMP port and 1 console port 1 alarm terminal 2 power supply interfaces
Cross connection ability	189x189 TU-12 crossover-connection function, flexible in network topology
Protection	Support point-to-point, chain topology and ring topology patterns, provide 1+1 Multiplex Section Protection and 1+1 Lower order Path Protection (LPP), the switch protection time is less than 50 ms
Ethernet	Standard Generic Framing Procedure (GFP) mapping Link Access Procedure SDH (LAPS) virtual concatenation and Link Capacity Adjustment Scheme (LCAS) for dynamic bandwidth allocation support up to 4 VCG corresponding to the 1-4 FE ports



Each FE and GE ports support switch function
Support up to 1536 bytes

SDH Clock

The clock in support of following, free vibration mode, compliant with ITU-T G.813 recommendation. To follow optical line clock or E1 line clock can be customized in following mode

Support E1 retiming function, recovering clock of any one of the 1st~4th E1 can be used as the transmitting clock for other E1 line

diagnoses

ALS (Auto-Laser-Shutdown) function can efficiently control the output of optical signal in disconnection condition

Dying Gasp function can detect the remote device power off alarm trap

Local optical interface external loop back, local E1 external loop back and local E1 internal loop back facilitate link detection

Management features

SNMP interface and CONSOLE interface provide in-band and out-of-band network channel, in support of local and remote software online upgrade Complete alarm trap, performance monitory function

Specifications

STM1 port	155Mbit/s optical SFP
E1 interfaces	120Ω with RJ45 connectors 2048kbit/s±50ppm HDB3 code
GE port	Interface rate: 1000M fixed or 100M 10/100/1000M 155Mbit/s SFP or 1.25Gbit/s SFP
4 FE ports	10mbit/s, 100mbit/s or 10/100mbit/s
Console port	connector type: RJ45
configuration	complies with RS232 standard 9600bps/8bit/none parity/1
Dimension	440mm×226mm×43.6mm (W×D×H)
Weight	< 3.5Kg
Power consumption	≤ 20W
Working environment	Temp: -5 ~ 50 Celsius

Compliances

Standards & protocols	ITU-T G.703, 704, 707 ITU-T G.781, 782, 783, 784 ITU-T G.803 ITU-T G.813 ITU-T G.823, 825, 826 ITU-T G.831 ITU-T G.841 ITU-T G.842 ITU-T G.957 ITU-T G.958 IEEE 802.3ab, IEEE 802.3u, IEEE 802.3, IEEE 802.3u
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Ordering Information

OPCOM3107-16E1-BL-AC	Standalone STM-1 ADM/TM, fixed interface: 16*E1 balanced, 4*FE+1GE with switch function, 2 STM-1 with SFP module, 2 power supplies, 110~230VAC
OPCOM3107-16E1-BL-DC	Standalone STM-1 ADM/TM, fixed interface: 16*E1 balanced, 4*FE+1GE with switch function, 2 STM-1 with SFP module, 2 power supplies, -36~-72VDC
OPCOM3107-16E1-BL-AC_DC	Standalone STM-1 ADM/TM, fixed interface: 16*E1 balanced, 4*FE+1GE with switch function, 2 STM-1 with SFP module, 2 power supplies, 220VAC/-48VDC