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Datasheet

# 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

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|---|---|
| **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

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|---|---|
| Interfaces | Two SDH STM-1 interface with SFP modules, can be configured to 2 independent line or 1+1 mode, redundant power supply<br>16 E1 balanced interfaces<br>1 combo GE port<br>4 FE electrical interfaces with RJ45<br>1 external clock interface with RJ45<br>1 SNMP port and 1 console port<br>1 alarm terminal<br>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<br>Link Access Procedure SDH (LAPS) virtual concatenation<br>and Link Capacity Adjustment Scheme (LCAS) for dynamic bandwidth allocation<br>support up to 4 VCG corresponding to the 1-4 FE ports |

Raisecom Technology Co., Ltd.
Building 2, No. 28 of the Shangdi 6th Street,
Haidian District,Beijing
100085, China

Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
Email: export@raisecom.com
Web: http://www.raisecom.com

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| | Each FE and GE ports support switch function<br>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<br>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<br>Dying Gasp function can detect the remote device power off alarm trap<br>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

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|---|---|
| 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

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|---|---|
| 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 |

## Ordering Information

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|---|---|
| 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 |

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100085, China

Tel: +86 10 8288 3305
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Email: export@raisecom.com
Web: http://www.raisecom.com

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