

DATA SHEET

HIGH POWER EDFA (EYDFA)

1RU, 2RU, PON Combiner, SNMP, Optical Switch (Optional)



KEY FEATURES

- Easy Operation with Touchscreen GUI
- -10~+10dBm Optical Input Power Range
- Adjustable Output Power : -10~+0.5dBm
- Monitoring Alarms Threshold Setting
- Remote Firmware Upgrading Function
- SNMPv2 & WEB Management Interface
- Supports GPON, EPON, 10GPON or 10GEPON WDM Pass Through

SPECIFICATIONS

Optical Characteristics

| | | |
|----------------------------|-----|-------------|
| Optical Input Wavelength | nm | 1545 ~ 1565 |
| Optical Input Power | dBm | -10~+10 |
| Optical Output Power | dBm | upto 40 |
| Typical Port Output Power | dBm | ≥18 |
| Port Number (s) | -- | 1~256 |
| Output Power Tolerance | dB | ±0.5 |
| Port Uniformity | dB | ±0.6 |
| Noise Figure ¹ | dB | ≤5.5 |
| Optical Test Port | dB | -5~+5 |
| Return Loss Input / Output | dB | ≥45 |
| Isolation Output > Input | dB | ≥40 |
| Polarization Dependence | dB | ≤0.3 |

¹Noise figure at 0 dBm input power, nominal output power and signal wavelength 1550nm

Management Interface

| | |
|-------------------------|------------------------------------|
| Data Link Layer | Ethernet 10/100 Base-T |
| Network Layer | IPv4, IPv6, ICMP |
| Transport Layer | UDP, TCP |
| Application Layer | SNMPv1/v2c, DHCP, Web |
| Front Panel | 2.4" or 3.5" Color Touchscreen LCD |
| Amplifier | Pump Current |
| Stabilization | Optical Output Power |
| Mode | Optical Gain |
| Automatic Pump Shutdown | Low Input Power (LOS) |
| Mode | High Back Reflection |
| Mode | Overheating |

PON Combiner Characteristics

| | | |
|--|----|----------------------|
| Center Wavelengths | nm | 1310 / 1490 |
| Insertion Loss | dB | ≤1 |
| Isolation CATV > PON | dB | ≥30 |
| Isolation COM > PON | dB | ≥15 |
| Return Loss | dB | ≥45 |
| <i>XG(S)-PON Combiner (Optional)</i> | | |
| Center Wavelengths | nm | 1270 / 1577 |
| <i>PON + XG(S)-PON Combiner (Optional)</i> | | |
| Center Wavelengths | nm | 1270 /1310/1490/1577 |

Optical Switch Characteristics (Optional)

| | | |
|----------------|----|-------|
| Insertion Loss | dB | <1 |
| Crosstalk | dB | ≤-55 |
| Repeatability | dB | ±0.05 |
| Switch Time | ms | ≤10 |
| Return Loss | dB | ≥50 |

Other Characteristics

| | | |
|-----------------------|-----|-----------------------------|
| Power Supply | pcs | 2 (1 default, 1 optional) |
| Chassis Type | -- | 1U, 2U, 3U 19" Rack Mounted |
| AC Input Voltage | Vac | 90~132 or 176~264 |
| DC Input Voltage | Vdc | 36~72 |
| Power | W | ≤55 (32x21dBm @0dBm Input) |
| Consumption | W | ≤35 (16x19dBm @0dBm Input) |
| Rack Mount | mm | 484*44*385 (1U) |
| Dimension (W*H*D) | mm | 484*88*336 (2U) |
| Dimension (W*H*D) | mm | 484*88*416 (2U) |
| Operating Temperature | °C | -5~+50 |