

PG-EP8018U

Optical Network Unit



PG-EP8018U series of wild-type ONU is the PG for radio and television company custom field type of ONU equipment, meet the IEEE 802.3-2005 EPON equipment and technical requirements for China Telecom V2.1. Is the industry's first all wild-type industrial ONU, waterproof structure by field (IP 65), using industrial grade chip-level power design and engineering, Ethernet port built-in lightning protection devices, three against power surges the design, greatly improve the reliability of field environments.

performance characteristics:

1. Surface treatment using advanced oxidation wild-type waterproof cast aluminum structure, a stronger acid, alkali effect; and has better water resistance and heat dissipation.
2. dual fiber or single fiber to provide data, CATV and other services.
3. High-speed data rates PON: up and down symmetric 1 Gb/s data, VoIP voice and IP video services.
4. based on automatic topology discovery and manually configure the ONU "plug and play" network expansion can be carried out anytime, anywhere.
5. support the bandwidth and priority based on the data set of SLA, support multiple priority levels to ensure real-time voice and video services priority transmission.
6. output port has a perfect lightning assembly, three levels of protection against power surges the design, greatly improving reliability.
7. rich OAM features a powerful support to the ONU port management and remote software upgrades, with the central office OLT, which enables remote fault diagnosis and location Function, significantly reduce maintenance workload.
8. Powerful layer function: IGMP Snooping, VLAN filtering, MAC address management, port speed, and features such as full support for IPTV, VOIP and other base In the IP business applications.
9. ONU rich user port management functions: VLAN, port isolation, port speed, flow control, IGMP and so on.
10. High sensitivity receiver, CATV signal - 6 dBm input to the system transmission requirements.
11. CATV RF characteristics

Output Level 85 dBm (input - 6 dBm)

AGC operating range 10 dB CNR $\geq$ 46 dB @ - 6 dBm (input)

C / CSO & C / CTB $\leq$ - 60 dB

Port Features:

1. 1xPON port
2. 4x10/100M Ethernet port

3. 1xCATV Interface

Optical Properties:

1. Support single fiber bi-directional wavelength division multiplexing (single fiber three-way) transmission
2. Interface: SC / APC
3. Maximum split ratio: 1: 32
4. Rate: longitudinal symmetry 1.25 Gbps
5. Send wavelength: 1310 nm
6. Receive wavelength: 1490 nm
7. Output Power: -1 ~ +4 dBm
8. Receiver sensitivity: <-26 dBm
9. OLT and ONU maximum distance between the support 20 km

Other features:

Certification: Complies with CE, FCC, ROHS and other standards

EMC / EMI: meet VCCI Class B, FCC Part 15 B standard

Safety: UL 60950 security specifications

lightning surge voltage protection: meet ITU-TK. 21 standard

Physical Characteristics:

Physical Dimensions: 240 * 220 * 110 (length × width × height, unit: mm)

Weight: <3kg (2.63Kg)

Power: 100 - 240 VAC

Power: 10 W

Temperature:

Operating temperature: -40 ~ 75 °C

Storage Temperature: -40 ~ 80 °C

Relative Humidity: 10 ~ 90% (non-condensing)