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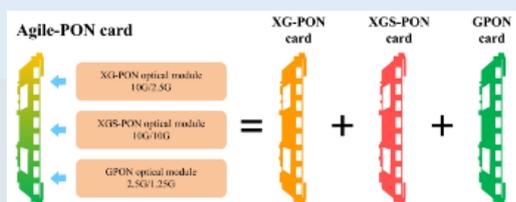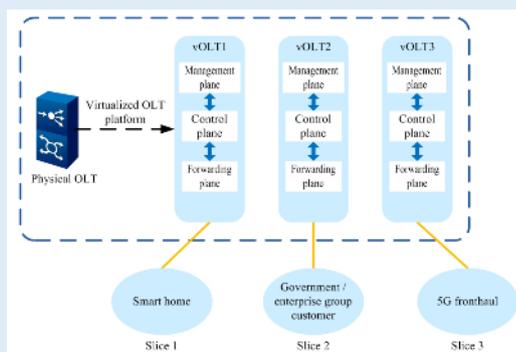
AN6000-2

AN6000-2 Optical Line Terminal Equipment Datasheet

Features

❖ 5G-oriented

- Network slicing: isolating VLAN resources, sharing hardware, carrying services of different types, easy for capacity expansion
- Agile-PON scheme: a perfect solution for 5G scenarios with numerous symmetric services, protecting investments in existing networks

❖ Ultra-high Bandwidth

- Designed with a high-rate backplane to provide high-bandwidth slots
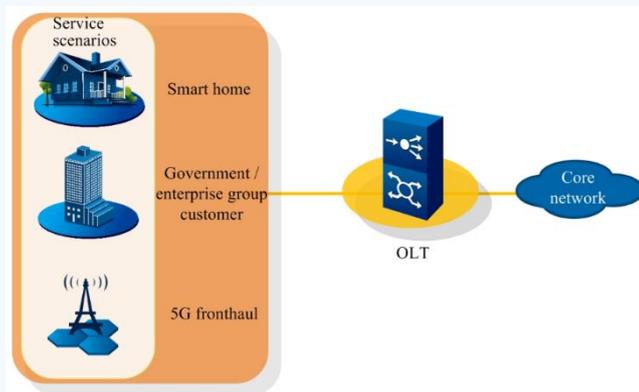

❖ Flexible Installation

- Quick and flexible deployment: 2U high, allowing mounting in a 19-inch/21-inch cabinet, an outdoor cabinet, or on a wall

❖ Eco-friendly and Energy-efficient

- Lead-free design compliant with RoHS2.0; smart temperature-control fans for lower energy consumption and less noise

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Application

The AN6000-2 is a brand-new next-generation intelligent mini optical line terminal device. It provides multiple service access solutions such as EPON, GPON, 10GEPON, XG-PON, XGS-PON and XG(S)-PON Combo. Accordingly, it can cater for service scenarios such as smart home access, government / enterprise group customer access and 5G fronthaul. It provides users with integrated service access solutions featuring large capacity, high bandwidth and low cost, so as to meet the demand of rapidly growing broadband services.

Specifications

Item	Specification
Dimensions of a subrack with mounting ears for 19-inch cabinets (H × W × D)	• 88mm×480mm×248.6mm
Dimensions of a subrack with mounting ears for 21-inch cabinets (H × W × D)	• 88mm×530mm×248.6mm
Slot configuration	• Two slots for service cards (slots 1 and 2) • Two slots for switch uplink cards (slots 3 and 4) • Two slots for power card (slots 5 and 6) • One slot for the fan unit (slot 7)
Maximum input current	• DC: 13A • AC: 8A
Rated voltage	• DC: -48V • AC: 110V / 220V
Operating temperature	• -40°C to 65°C
Operating relative humidity	• 5% to 95% (no condensing)
Switch capacity of the backplane bus	• 1.6 Tbit/s
Switch capacity of the switch uplink card (in load sharing mode)	• 1.04 Tbit/s
Power supply	• DC (two power inputs for redundancy protection) • AC + battery (backup)
Maximum EPON / GPON / 10G EPON / XG (S)-PON / GPON&XG (S)-PON Combo ports in the system	• 32
Maximum upstream ports in the system	• 12 × 10GE / GE upstream ports
Maximum ONUs connected to the system	• 4096
Maximum transmission distance (PON port)	• 60 km
Maximum upstream transmission distance	• 80 km
Time for active-standby switching of the switch uplink cards	• ≤ 50 ms
Time for optical path protection switching (Type B /Type C)	• ≤ 50 ms
Maximum IPv4 /IPv6 routing table entries in the system	• 8192 / 4096
Maximum MAC addresses	• 98304
Maximum multicast groups	• 4096
Long-term packet loss rate	• When the traffic accounts for 90% of the throughput, the 24-hour packet loss rate is 0
Overall power consumption (2×HSUD+2×GNOA+2×PIDD+FAN)	• Static / typical / maximum power consumption: 238 W / 300 W / 422 W