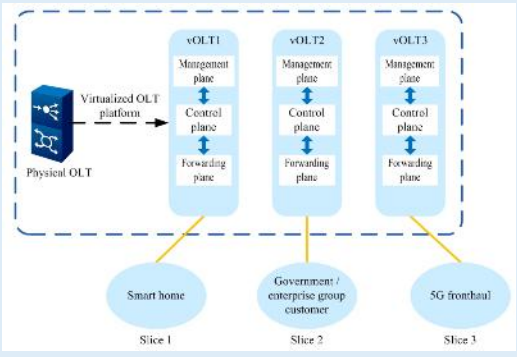
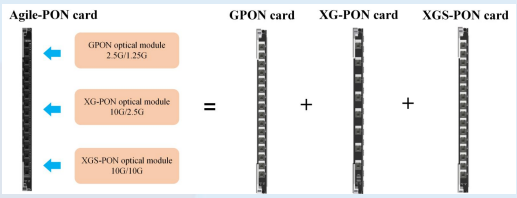
AN6000-7 Optical Line Terminal Equipment Datasheet

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

- Supports the following mainstream routing protocols, which can be flexibly deployed according to service demands of operators
- Provides MPLS functions as described below to cater for new applications of networks

❖ 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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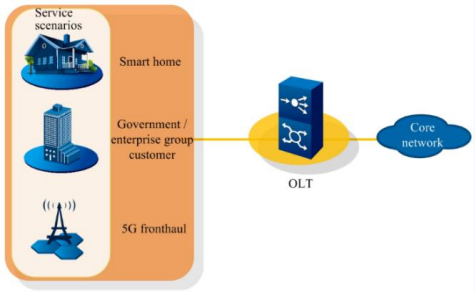
Application

The AN6000-7 is a brand-new next-generation intelligent optical line terminal device. It provides multiple service access solutions such as EPON, GPON, 10GEPON, XG-PON, XG(S)-PON Combo and P2P . Accordingly, it caters to the demands for smart home access, government / enterprise group customer access, and 5G fronthaul. It provides integrated service access solutions featuring large capacity, high bandwidth and low cost, so as to cater for the demands of soaring broadband services.



Specifications

Item	Specification
Dimensions of a subrack with mounting ears for 19-inch cabinets (H × W × D)	• 266 mm × 480 mm × 253.8 mm (excluding the fiber passage unit)
Dimensions of a subrack with mounting ears for 21-inch cabinets (H × W × D)	• 266 mm × 530mm × 253.8 mm (excluding the fiber passage unit)
Slot configuration	• Two slots for core switch cards (slots 8 and 9) • Seven slots for service cards (slots 1 to 7) • Two slots for uplink cards (slots 6 and 7) • Two slots for power cards (slots 24 and 25) • One slot for the common interface card (slot 26) • One slot for the fan unit (slot 23)
Maximum input current	• 37.5 A
Rated voltage	• -48V
Operating temperature	• -40℃ to 65℃
Operating relative humidity	• 5% to 95% (no condensing)
Switch capacity of the backplane bus	• 5.6 Tbit/s
Switch capacity of the core switch card (in load sharing mode)	• 6.8 Tbit/s
Power supply	• DC (two power inputs for redundancy protection)
Maximum EPON / GPON / 10G EPON / XG-PON / GPON&XG (S)-PON Combo/ Agile-PON ports in the system	• 112
Maximum upstream ports in the system (Upstream ports are provided by both an HU8A card and an HSCA card)	• 16 × 10GE / GE upstream ports (HU8A) + 8 × 10GE / GE upstream ports (HSCA)
Maximum ONUs connected to the system	• 8192
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	• 16384 / 8192
Maximum MAC addresses	• 262144
Maximum multicast groups	• 4096
Overall power consumption (2×HSCA+7×GNOA+2×PIBA+FAN+CIOA)	• Static / typical / maximum power consumption: 699.5 W / 899.5 W / 1302.5 W