

FiberHome AN6000-7 OLT Datasheet	
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)
Dimensions (H × W × D) of a subrack with mounting ears for 19-inch cabinets>Note 1	266 mm × 480 mm × 253.8 mm (excluding the fiber passage unit)
Dimensions (H × W × D) of a subrack with mounting ears for 21-inch cabinets	266 mm × 530 mm × 253.8 mm (excluding the fiber passage unit)
Weight of an empty subrack (excluding the fan unit)	8.5 kg
Weight of an empty subrack (including the fan unit)	10.7 kg
Maximum input current	37.5 A
Power supply mode	DC (two channels of power supplies forming redundancy protection)
Working voltage range	-38.4 V to -57.6 V
Rated voltage	-48 V
Operating temperature	-40°C to 65°C
Operating relative humidity	5% to 95% (non-condensing)
Storage temperature	-40°C to 70°C
Relative humidity for storage	5% to 95% (non-condensing)
Atmospheric pressure	70 kPa to 106 kPa
Slot bandwidth	200 Gbit/s
Switch capacity of the backplane bus	5.6 Tbit/s
Core switch card capacity (in the load sharing mode)	6.8 Tbit/s
Maximum number of MAC addresses in the system	262144
Maximum number of IPv4 routing tables in the system	16384
Maximum number of IPv6 routing tables in the system	8192
Maximum number of ARP tables in the system	18432
Maximum number of ND tables in the system	9216

Maximum number of multicast groups in the system	4096
Full-load bit error rate	< 10 e-7
System reliability specifications	System availability with typical configuration: > 99.999% Mean time between failures (MTBF) of the system: approx. 45 years Note: The mean time to repair (MTtr) for the entire system is 2 hours.
Maximum number of GPON ports in the system	112
Maximum number of 10G EPON ports in the system	112
Maximum number of XG-PON ports in the system	112
Maximum number of GPON & XG-PON Combo ports in the system	112
Maximum number of GPON & XGS-PON Combo ports in the system	112
Maximum number of Agile-PON ports in the system	112
Maximum number of uplink ports in the system	8 × 10GE / GE uplink ports (HSCA) (Only core switch cards are used to provide uplink ports.)
	16 × 10GE / GE uplink ports (HU8A) + 8 × 10GE / GE uplink ports (HSCA) (Both core switch cards and uplink cards are used to provide uplink ports.)
	8 × 10GE / GE uplink ports (KU1B) + 2 × 100GE uplink ports (KU1B) + 8 × 10GE / GE uplink ports (HSCA) (Both core switch cards and uplink cards are used to provide uplink ports.)
Maximum number of Ethernet ports in the system	168
Maximum number of ONUs connected to the system	8192
Maximum number of multicast users in the system	8192
Maximum transmission distance (PON port)	60 km
Maximum uplink transmission distance	80 km
Time for active-standby	≤ 50 ms

switching of core switch cards/uplink cards	
Time for optical path protection switching (Type B / Type C)	≤ 50 ms
Bandwidth allocation granularity of DBA	GPOA: 64 kbit/s
	EX8A: 640 kbit/s
	EXO A: 640 kbit/s
	GX8A: 256 kbit/s
	GM8A: 256 kbit/s (XG-PON) / 64 kbit/s (GPON)
	GM8B: 256 kbit/s (XG-PON) / 64 kbit/s (GPON)
	GMOA: 256 kbit/s (XG-PON) / 64 kbit/s (GPON)
	GNOA: 64 kbit/s (XGS-PON) / 64 kbit/s (GPON)
	GFOA: 64 kbit/s (XGS-PON) / 256 kbit/s (XG-PON) / 64 kbit/s (GPON)
Minimum configurable bandwidth of DBA	GPOA: 1024 kbit/s
	EX8A: 2560 kbit/s
	EXO A: 2560 kbit/s
	GX8A: 1024 kbit/s
	GM8A: 1024 kbit/s
	GM8B: 1024 kbit/s
	GMOA: 1024 kbit/s
	GNOA: 1024 kbit/s
	GFOA: 1024 kbit/s
DBA accuracy	Better than ±5%
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	Typical configuration: 2 × HSCA + 7 × GNOA + 2 × PIBA + FAN + CIOA Static power consumption: 614 W Typical power consumption: 996 W Maximum power consumption: 1301 W The equipment can be used together with a PDP with a rated current of 63 A / 32 A. For details of matching PDPs, see PDPs. Note: For other card configurations, calculate the overall power consumption according to this formula: overall power consumption = power consumption of 2 core switch cards + power consumption of 7 service cards + power consumption of 2 power cards + power consumption of the fan unit + power consumption of the common interface card. For power consumption of each card, refer to AN6000 Series Optical Line Terminal Equipment Hardware Description.
	The overall power consumption is measured under the following conditions: u Working voltage: -53.5 V DC. u Room temperature: 25°C (static power consumption and typical power consumption) or 55°C (maximum power

	consumption) u Static power consumption: All the broadband ports are deactivated. u Typical power consumption: 50% of the broadband ports are concurrently activated. u Maximum power consumption: 100% of the broadband ports are concurrently activated.
Note 1: The AN6000-7 subrack is equipped with mounting ears for 19-inch cabinets by default.	