

H806GPFD Board

The H806GPFD board is a 16-port GPON OLT interface board. It works together with the ONU to provide the GPON access service.



Benefits

- **High density and energy saving**
 - High density and low power consumption, supporting 2048 access users
- **High reliability**
 - Chip-level type B protection (single-homing and dual-homing) and type C protection (single-homing and dual-homing) switching
 - Real-time rogue ONU detection and isolation, ensuring stable service running
- **High-value services**
 - 4-level HQoS, improving user experience
 - 9216 jumbo frames, greatly improving transmission efficiency
- **Efficient OAM**
 - Variable-length of OMCI, improving upgrade efficiency and reducing break off time
 - A maximum distance difference of 40 km between two ONUs under the same PON port (board capability), simplifying network planning

External Interfaces

16 GPON ports with SFP optical modules:

- Max. split ratio:
 - Class B+: 1:64
 - Class C+/C++: 1:128

Specifications

Function	
Forwarding capability	40 Gbit/s
T-CONTs per PON port	1024
Service flows per PON board	16368
Maximum frame size	2004 bytes 9216 bytes (jumbo frame enabled)
MAC addresses	32768
Maximum distance difference between two ONUs under the same PON port (board capability)	40 km
N:1/1:1 VMAC	Supported
FEC	Bidirection
CAR group	Supported
IPv6	Supported
4-level HQoS	Supported
Variable-length OMCI	Supported
ONU-based shaping or queue-based shaping	Supported
Load sharing	Supported
High-precision clock time synchronization	Supported
Type B protection (single-homing and dual-homing)	Supported
Type C protection (single-homing and dual-homing)	Supported
Rogue ONU detection and isolation	Supported
Automatic shutdown at high temperature	Supported
Automatic shutdown of an idle port	Supported
1588v2	Supported
Environment	
Operating temperature	-40° C to +65° C
Power consumption	• Static: 20 W • Maximum: 46 W