GPHF Board

GPHF is a 16-port GPON OLT interface board, which works together with the ONU to implement GPON access services.

Benefits

- **High density and energy-conversation**
  - High density and low power consumption, supporting access of 2048 users
  - 40-km distance of two ONUs under the same PON port, simplifying network planning
- **Easy OAM**
  - Real-time rogue ONT detection and isolation, ensuing stable service running
  - Variable-length OMCI, improving upgrade efficiency and reducing break off time

External Interfaces

16 GPON ports (SFP)

- Maximum 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	2052 bytes
Maximum number of MAC addresses	16384
Maximum distance difference between two ONUs under the same PON port	40 km
FEC	Bidirection
CAR group	Supported
HQoS	Not supported
Variable-length OMCI	Supported
ONU-based shaping or queue-based shaping	Supported
Type B protection (dual-homing)	Not supported
Type B protection (single-homing)	Supported
Type C protection (dual-homing)	Supported
Type C protection (single-homing)	Supported
1588v2	Not supported
Rogue ONT detection and isolation	Supported
Automatic shutdown at high temperature	Supported
Energy saving for service boards	Supported
Environment	
Operating temperature	-40 °C to +65° C
Power consumption	Static: 25 W Maximum: 50 W