

# H903GPHF Board

The H903GPHF 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 ONT detection and isolation, ensuring stable service running
- **High-value services**
  - 4-level HQoS, improving user experience
  - 9216 jumbo frames, greatly improving transmission efficiency
- **Easy 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
  - VMOS, improving video troubleshooting efficiency

## External Interfaces

### 16 GPON ports (SFP)

- 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	2052 bytes 9216 bytes (jumbo frame enabled)
Maximum number of MAC addresses	131072
Maximum distance difference between two ONUs under the same PON port (board capability)	40 km
FEC	Bidirection
CAR group	Supported
HQoS	Supported
Variable-length OMCI	Supported
ONU-based shaping or queue-based shaping	Supported
Type B protection (dual-homing)	Supported
Type B protection (single-homing)	Supported
Type C protection (dual-homing)	Supported
Type C protection (single-homing)	Supported
1588v2	Supported
Rogue ONT detection and isolation	Supported
Automatic shutdown at high temperature	Supported
Energy saving for service boards	Supported
D-CCAP	Supported
Environment	
Operating temperature	-40° C to +65° C
Power consumption	Static: 21 W
	Maximum: 47 W