

# H905XSHFE Board

The H905XSHFE board is an 16-port XGS-PON OLT interface board. It works together with the optical network unit (ONU) to provide XGS-PON access services.



## 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
- **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\* XGS-PON ports (SFP+)

- Max. split ratio: 1: 256

## Specifications

Function	
Forwarding capability	160 Gbit/s
Rate mode	Asymmetric rate Symmetric rate
T-CONTs per PON port	2048
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 (single-homing)	Supported
Type B protection (dual-homing)	Supported
Type C protection (single-homing)	Supported
Type C protection (dual-homing)	Supported
1588v2	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 +55° C
Power consumption	Static: 36 W
	Maximum:70 W