

# H807GPBH Board

The H807GPBH board is an 8-port GPON OLT interface board. It works together with the ONU to provide the GPON access service.



## Benefits

- **High-precision clock and time synchronization** : 50-ppb frequency synchronization and 100-ns phase synchronization
- **Flexible SLA**: 4-level HQoS, improving user experience
- **High reliability**
  - Chip-level type B protection switching, shortening the switching time to less than 50 ms
  - Type C protection dual-homing, providing geography-level disaster recovery
  - Real-time rogue ONU detection and isolation, ensuring stable service running
- **Easy OAM**
  - Variable-length OMCI, improving upgrade efficiency and reducing break off time
  - A maximum distance difference of 40 km between two ONUs under the same PON port, simplifying network planning
  - 1:64 eOTDR, supporting accurate fault demarcation and quick fault locating

## External Interfaces

### 8 GPON ports with SFP optical modules:

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

## Specifications

| Function   |  |
|--|--|
| Forwarding capability  | 20 Gbit/s                                      |
| T-CONTs per PON port   | 1024   |
| Service flows per PON board  | 8184   |
| Maximum frame size   | 2004 bytes<br>9216 bytes (jumbo frame enabled) |
| MAC addresses  | 16384  |
| Maximum distance difference between two ONUs under the same PON port | 40 km from V800R013                            |
| N:1/1:1 VMAC   | Supported                                      |
| FEC  | Bidirection                                    |
| CAR group  | Supported                                      |
| IPv6   | Supported                                      |
| 4-level HQoS   | Supported                                      |
| Variable-length OMCI   | Supported from V800R013                        |
| ONU-based shaping or queue-based shaping                             | Supported                                      |
| Load sharing   | Supported                                      |
| High-precision clock time synchronization                            | Supported                                      |
| Type B/Type C protection   | Supported                                      |
| Rogue ONU detection and isolation                                    | Supported                                      |
| Automatic shutdown at high temperature                               | Supported                                      |
| Automatic shutdown of an idle port                                   | Supported                                      |
| 1:64 eOTDR   | Supported (used together with the reflector)   |
| Environment  |  |
| Operating temperature  | -40° C to +65° C                               |
| Power consumption  | • Static: 25 W<br>• Maximum: 38 W              |

