

# XPON Series ONU

1-Port FTTH/O ONU, GPON/EPON Dual-Mode Adaptive



## Overview

FS ONU1710-1G/ONU1910-1GF-W is a single-gigabit smart ONU terminal device for multi-service access networks.

ONU1710-1G/ONU1910-1GF-W follows ITU-T/IEEE protocol standards, supports GPON/EPON dual-mode self-adaptation, has good interoperability and operability, and can realize interconnection with OLT equipment of mainstream vendors in the industry.

## Benefits

- GPON/EPON Dual-Mode Adaptation
- Support IGMP Multicast Monitoring Function
- DBA Dynamic Bandwidth Allocation, QoS Service Quality Assurance
- OMCI Remote Management
- Low Power Consumption

## Technical Specification

XPON series ONU can provide high performance broadband access service for home and enterprise. Here's a look at the details.

### CHARACTERISTICS

|                       | ONU1710-1G                        | ONU1910-1GF-W                       |
|-----------------------|-----------------------------------|-------------------------------------|
| PON Ports             | 1SC/UPC                           | 1SC/UPC                             |
| UNI Ports             | 1GE TX                            | 1GE + 1FE                           |
| WIFI                  | /                                 | 300 Mbps                            |
| USB                   | /                                 | 1                                   |
| TX power              | 0.5~5dBm                          | 0.5~5dBm                            |
| RX Sensitive          | <-28dBm                           | <-28dBm                             |
| Power Supply          | 100-240V AC, 12V/0.5A             | 100-240V AC, 12V/1A                 |
| Power Consumption     | 6W                                | 10W                                 |
| Dimensions (HxWxD)    | 0.94"x3.14"x2.95"<br>(24x80x75mm) | 1.18"x5.51"x4.13"<br>(30x140x105mm) |
| Operating Temperature | 0 to 45°C (32 to 113°F)           | 0 to 45°C (32 to 113°F)             |
| Storage Temperature   | -40 to 85°C (-40 to 185°F)        | -40 to 85°C (-40 to 185°F)          |
| Operating Humidity    | 10% to 85% (non-condensing)       | 10% to 85% (non-condensing)         |
| Storage Humidity      | 5% to 95% (non-condensing)        | 5% to 95% (non-condensing)          |

FEATURES

| Functionality | ONU1710-1G                                                                                                                                                                                                                                                                                                                                                     | ONU1910-1GF-W                                                                                                                                                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLAN          | <ul style="list-style-type: none"><li>• 4K VLAN</li><li>• Port based VLAN</li><li>• IEEE 802.1Q VLAN</li><li>• Tag/transparent/aggregation /Trunk/translation mode VLAN</li><li>• CTC2.0 defined VLAN</li></ul>                                                                                                                                                | <ul style="list-style-type: none"><li>• 4K VLAN</li><li>• Port based VLAN</li><li>• IEEE 802.1Q VLAN</li><li>• CTC2.0 defined VLAN</li></ul>                                                                                                                                                                                                                 |
| QoS           | <ul style="list-style-type: none"><li>• Backpressure flow control (half-duplex)</li><li>• IEEE 802.3x flow control (full duplex)</li><li>• Against head of line mechanism</li><li>• IEEE 802.1p, CoS</li><li>• Four priority queues on each port</li><li>• WR, SP and FIFO queue schedule algorithms</li><li>• Port rate limit</li><li>• SLA and DBA</li></ul> | <ul style="list-style-type: none"><li>• Backpressure flowcontrol (half-duplex)</li><li>• IEEE802.3x flow control (full duplex)</li><li>• Against head of line mechanism</li><li>• IEEE 802.1p, CoS</li><li>• Four priority queues on each port</li><li>• WR, SP and FIFO queues chedule algorithms</li><li>• Port rate limit</li><li>• SLA and DBA</li></ul> |
| Multicast     | <ul style="list-style-type: none"><li>• IGMP-Snooping</li><li>• CTC defined dynamic multicast function</li><li>• MLD-Snooping</li><li>• Multicast group limitation</li><li>• Multicast fast-leave</li></ul>                                                                                                                                                    | <ul style="list-style-type: none"><li>• IGMP-Snooping</li><li>• CTC defined dynamic multicast function</li><li>• MLD-Snooping</li><li>• Multicast group limitation</li><li>• Multicast fast-leave</li></ul>                                                                                                                                                  |

FEATURES

| Functionality    | ONU1710-1G                                                                                                                                                                            | ONU1910-1GF-W                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Reliability      | <ul style="list-style-type: none"><li>• Loop detection</li><li>• Dying-Gasp</li><li>• TX/RX optical power alarm</li></ul>                                                             | <ul style="list-style-type: none"><li>• Loop detection</li><li>• Dying-Gasp</li><li>• TX/RX optical power alarm</li></ul> |
| Management       | <ul style="list-style-type: none"><li>• Management modes including HTTP</li><li>• Software upgrade through TFTP and WEB,OM CI,etc.</li><li>• Local or server syslog</li></ul>         | --                                                                                                                        |
| Network Security | <ul style="list-style-type: none"><li>• MAC address number limit</li><li>• MAC filter</li><li>• Port protect</li></ul>                                                                | <ul style="list-style-type: none"><li>• MAC address number limit</li><li>• MAC filter</li><li>• Port protect</li></ul>    |
| Standards        | <ul style="list-style-type: none"><li>• ITU-T G.984/G.988</li><li>• IEEE 802.1D, Spanning tree</li><li>• IEEE 802.1Q, VLAN</li><li>• IEEE 802.1W, RSTP</li><li>• TU-TY.1291</li></ul> | <ul style="list-style-type: none"><li>• ITU-T G.984/G.988</li><li>• IEEE 80 2.1Q,VLAN</li></ul>                           |

FEATURES

| Functionality       | ONU1710-1G                                                                                                                            | ONU1910-1GF-W                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless            | --                                                                                                                                    | <ul style="list-style-type: none"><li>• 802.11 b/g/n</li><li>• 802.11 ac(-22A models)</li><li>• 2x2 MIMO</li><li>• Multi SSID</li><li>• SSID encryption</li><li>• Wireless channel (configurable)</li></ul> |
| EPON / GPON Service | <div>EPON<ul style="list-style-type: none"><li>• AES128 algorithm encryption</li><li>• MAC/loid/hybrid authentication</li></ul></div> | <div>GPON<ul style="list-style-type: none"><li>• AES128 algorithm encryption</li><li>• MAC/loid/hybrid authentication</li></ul></div>                                                                       |
| Voice Service       | --                                                                                                                                    | <ul style="list-style-type: none"><li>• SIP, T.38FAX</li><li>• Three-way calling</li><li>• Call waiting</li><li>• Hot-line calling</li></ul>                                                                |
| IP Service          | --                                                                                                                                    | <ul style="list-style-type: none"><li>• DHCP server/client</li><li>• Routing/bridging/hybrid mode</li><li>• DNS, DDNS</li><li>• PPPOE</li><li>• NAT/NAPT</li></ul>                                          |