

OGU 6830 – 4GWa XPON ONU with 4 GE Port + 11ac WiFi



OGU 6830 - 4GWa is compliant with ITU-T G.984.X and ITU-T G.988 standard. It provides 4 x 10/100/1000 BASE-T interfaces and dual band Wi-Fi (2.4GHz and 5.8GHz) interface for FTTH/FTTB solution. OGU 6830 – 4GWa meets the future triple-play service requirements.

Applications

- ☐ FTTX
- ☐ Data
- ☐ WiFi

Features

- ☐ Comply with ITU-T G.984.X / G.988 standard
- ☐ Support automatically adapt to the EPON or GPON mode by OLT
- ☐ Downlink speed up to 2.5Gbits/s and Uplink speed up to 1.25Gbits/s
- ☐ Support high split ratio of 1:128 and up the coverage radius to 20 km
- ☐ Support DBA (Dynamic Bandwidth Assignment)
- ☐ Support powerful QoS function to meet the needs of different business types
- ☐ Support ONU auto-discovery / Link detection / remote upgrade of software
- ☐ Support VLAN division and user separation to avoid broadcast storm
- ☐ Support ACL to configure data packet filter flexibly
- ☐ Support telnet remote maintenance and configuration
- ☐ Support software online upgrade
- ☐ Support OMCI and TR069 management
- ☐ Support loopback detection at user network interface
- ☐ Support Ethernet auto-negotiation and MDI / MDIX auto-detection

Specifications

Item	
PON Interface	Parameter Uplink transmission rate : 1.25Gbps Downlink transmission rate : 2.5Gbps Network coverage radius : 20 km Optical interface : SC-UPC or SC/APC (Optional) Optical receiver with high sensitivity : $\geq -27\text{dBm}$ Luminous power : 0~5dBm
SDRAM Flash	256MB
Memory	16MB
Ethernet	LAN1~LAN4 , 10/100/1000Base-TX , RJ45
Wireless	External antenna IEEE 802.11b/g/n/ac compliant Frequency: 2.4GHz & 5.8GHz Two Transmit and Two Receive path (2T2R) Wavelength : Tx
Optical Performance	1310nm , Rx 1490nm Tx Optical Power : 0~5dBm Rx Sensitivity : $\geq -27\text{dBm}$ Saturation Optical Power : -3dBm PON throughput : downstream > 2.2Gbps ; upstream $\geq 950\text{Mbps}$
Data Transmission	Ethernet port : 10/100/1000Mbps
Housing Power	Plastic casing
supply Power	DC 12V / 1.5A adapter
consumption	Power consumption : < 10W
Dimension	Dimension : 180mm(W)×122mm(D)×28mm(H)
Environmental Requirement	Operating temperature : -10 °C to 45 °C Storage temperature : -40 °C to 80°C Operating humidity : 0% to 90% (Non-condensing) Storage humidity : 0% to 95% (Non-condensing)

Software Specification

PON	Comply with ITU-T G.984 / G.988 GPON standard FEC (Forward Error Correction) in both upstream and downstream Dynamic bandwidth status report 802.1p mapped for upstream QoS scheduling based on SP or WRR between GEM port and T-CONT Downstream multicast GEM port and broadcast GEM port
Ethernet	Support Auto-speed and MDI / MDIX auto detection Internal L2 switch Advanced data processing function , such as VLAN label processing , flow classification and packet filtering.
Gateway	WAN support Router and Bridge mode Router mode support PPPoE / DHCP / static IP WAN support Internet and IPTV LAN support DHCP and static IP Support NAT and NAPT Support UPnP
WiFi	Compatible with IEEE 802.11 b/g/n/ac, maximum support 300Mbps Dual band, 2.4GHz & 5.8GHz WEP , WPA-PSK , WPA2-PSK and other encryption
OAM	Standard OMCI comply with ITU-T G.988 Comply with TR-069 standard Comply with TR-098, TR-140 terminal integrated management interface specification Alarm reporting and performance monitoring Remote software upgrade through OMCI

WiFi Specification

Operate	Router or bridge 2x2 MIMO antenna IEEE
Antenna	802.11n : ≥ 75 Mbps @20M bandwidth
Throughput	IEEE 802.11ac ≥ 350 @80M bandwidth 2.412~2.483 GHz
Frequency	5.725~5.850 GHz 13*Channel
Channel Modulation Coding	DSSS , CCK and OFDM
RF receive sensitivity RF	BPSK , QPSK , 16QAM and 64QAM -64dB
Maximum output power	16dB