



Technical Data Sheet XPON ONU F6600S



Product Information

F6600S WiFi-6 XPON ONT is standards based on CPE designed for advanced triple-play deployments. The compact package contains many features including QoS, VoIP and multicast video support.

F6600S is ideal for triple-play service deployments in FTTH/FTTB application. Industry standard SIP voice signaling provides reliable voice services. The Ethernet ports can be separated into different services allowing the configuration of dedicated ports for IP video and data. Compliant with standard OMCI definition, F6600S is manageable from remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.

Features

- Supports 802.11ax, Compatible with 802.11 b/g/n/ac products
- Dual band – for combined wireless speeds of up to 1800Mbps at 2.4GHz and 5GHz band
- Fiber access and gigabit port provide incredibly fast transfer speeds
- Supports OMCI (ONT Management Control Interface) & TR remote management
- Easy Setup for quick & config free installation

Specifications

Key Components

Flash Memory	256M Bytes
SDRAM for CPU	256M Bytes
ITU-R K.21	Support
Interface	
	1x SC/UPC GPON Port
	Standard Compliance ITUG.984.2 Class B+
	Laser safety standard IEC-60825 Class I
	Transmitter 1.244Gbps upstream DFB transmitter in1310nm, with >=10dB Extinction Ratio
	Mean launch power in 0.5 to 5dBm range
	Turn on /off time at burst mode<12.8ns
Interface	Receiver 2.488Gbps downstream receiver in1490nm, with -8 to-28dBm working range
	Isolation(1441-1450nm), (1530-1539nm)>=25dB
	Isolation(1260-1441nm), (1539-1625nm)>=35dB
	TC Layer Types 1 to 5 TCON Tas defined in G.984.3
	32 TCONT , 256 GEM Ports
	Flexible mapping between TCONT and GEM Ports

LAN

- 4 x 10/100/1000Base-TX MDI/MDIX RJ-45 ports (Max 4 ports)
- Compliant with following standards:
1. IEEE 802.3/802.3u
 2. Hardware based 10/100/1000, full/half, flow control auto negotiation
 3. Non-blocking wire speed reception and transmission
 4. Full duplex IEEE 802.3x flow control and half duplex back-pressure flow control
 5. Broadcast storm protection
 6. Automatic address learning, address aging and address migration

7. Integrated address Look-Up Engine, 1K absolute MAC addresses supported

VoIP	1*RJ11
USB	1*USB
Power Jack	12V/1.5A
Buttons	Power Button Reset Button Wi-Fi Button WPS 2.4G/5G buttons
Antenna	External*4

WIFI General Spec

Wireless Standards	IEEE802.11ax, 5GHz IEEE802.11ax, 2.4GHz
Signal Rate	5GHz:Up to 1200Mbps 2.4GHz:Up to 573.5Mbps
Operation Frequency	MU MIMO (2x2 for 2.4GHz and 2x2 for 5GHz band)

2.4 G:

11b 11M mode: 25dBm
11g 54M mode: 21dBm
11n(HT20 MCS7) mode: 20dBm
11n(HT40 MCS7) mode: 20dBm
11ax(HE40 MCS11)mode: 18dBm

Transmit Power

5G:

11a 54M mode: 24dBm
11n(HT20 MCS7) mode: 20dBm
11n(HT40 MCS7) mode: 20dBm
VHT80 MCS9 mode: 18dBm
HE80 MCS11 mode: 16dBm

2.4G:

11b 1M mode: -99dBm
11g 54Mmode: -78dBm
11n(HT20 MCS7) mode: -76dBm
11ax(HE20 MCS11): -66dBm

Transmit Power

5G:

11a 54M mode: -77dBm
11n(HT20 MCS7) mode: -75dBm
VHT80 MCS9 mode: -63dBm
HE20 MCS11 mode: -64.5dBm
HE80 MCS11 mode: -60dBm

Wireless Security	WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
Software Features	
WAN Type	Dynamic IP/Static IP / PPPoE
DHCP	Server, Client, DHCP Client List, Address Reservation Support for multiple subnets Static IP lease DHCP relay
Quality of Service	WMM, Bandwidth Control
Port Forwarding	Virtual Server, Port Triggering, UPnP, DMZ, NAT
VLAN	802.1Q tag VLAN, VLAN transparent mode/VLAN translation mode/ VLAN trunk mode
Access Control	Parental Control, Local Management Control, Host List, Access Schedule, Rule Management
Firewall Security	DoS, SPI Firewall IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
VoIP Features	RJ-11 FXS port for connecting to analog telephones support SIP protocol to deliver voice service (SIP client allocation & Registration) Multiple codec support on ONT ITU-T G.711, G.722, G.729 (A and B) & T.38 Call forwarding, Call waiting, Call block, 3-way conference call, etc.
Management	TR069 Access Control Local Management Remote Management
Internet Protocol	IPv4, IPv6
Environment	
Operating Temperature	0°C~40°C
Storage Temperature	-40°C~70°C
Relative Humidity	10%~93%, non-condensing
Storage Humidity	5%~95%, non-condensing

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