



GPON OPTICAL MODEM FK-ONT-G420W/AC S2



Product Type	Equipment GPON FBS
Description	The FK-ONT-G420W/AC S2 is an ONT (Optical Network Terminal) compatible with standard ITU-T G.984. This equipment features bandwidths of 1.25Gbps upstream and 2.5Gbps downstream. The ONT supports complete features of data and voice, with internal integrated antenna and Dual-Band 802.11 a/b/g/n/ac WiFi connection.
Interfaces	<ul style="list-style-type: none"> • 1 GPON SC-APC optical interface; • 4 RJ-45 10/100/1000Base-T (GbE) metallic interfaces; • 2 RJ-11 FxS metallic interfaces for analog voice communication; • Dual-Band 802.11 a/b/g/n/ac WiFi with internal antenna.
Constructive Characteristic	<ul style="list-style-type: none"> • Antenna Gain: 3dBi / Tx Power: 15dBm (31,6mW) • Operating Temperature : -5°C a +50°C; • Storing temperature: -20°C a +60°C; • Operating Umidity : 5 to 90 % (non-condensing); • Power Supply 12VDC / 1.5A with AC/DC 100-240V adapter, 50/60 Hz (not included); • Dimentions (WxHxD): 160 x 34 x 220 mm; • Indicative LED status.
GPON	<ul style="list-style-type: none"> • Accordingly to GPON ITU-T G.984.x standard; • 1.2Gbps Upstream transmission; • 2.5Gbps downstream reception; • Transmission wave-length : 1310nm; • Receptiom wave-length : 1490nm; • Multiple T-CONTs/GEM Ports per device; • Flexible Mapping between GEM Ports and T-CONTs; • Forward Error Correction (FEC); • Dying Gasp alarm; • Optical Transmission Power : 0,5dBm ~ +5dBm; • Optical Reception Power : -8dBm ~ -27dBm.
POTS Characteristics for analog telephony	<ul style="list-style-type: none"> • 5-REN per FxS port; • SIP (RFC3261/3262/3264); • RTP, RTCP (RFC3550,3551);

- DTMF dialing / Pulse dialing;
- Multiple Codecs: G.711, G.723.1, G729;
- T.38 FAX mode;
- Echo cancellation.

Layer 2

- In conformity to IEEE 802.1D and 802.1Q;
- Standard Ethernet bridging;
- Max 4k MAC Addresses per device;
- MAC Address learning with auto-aging;
- Virtual Switch based on 802.1Q VLAN standard;
- VLAN tagging/detagging per Ethernet port;
- VLAN stacking (Q-in-Q) and VLAN Translation;
- VLAN Port Filtering;
- Destination address filter per port.

Layer 3

- PPPoE Client: multicient per ONT;
- DHCP Server/Client;
- DNS Server (DNS relay, DNS transparent);
- NAT and NAPT: 16K session (8K upstream, 8k downstream);
- Port forwarding;
- Firewall SPI with ACL integration.

Qos

- Hardware based priority lines - IEEE 802.1p (Cos);
- 8 lines per port;
- 802.1p Marking/remarking;
- Limiter Broadcast / Multicast rate.

Multicast

- IGMP Snooping;

Wireless Communication

- Compatible with IEEE 802.11b/g/n and 802.11ac;
- Multiple SSIDs;
- Security: WEP (64/128bit), WPA-PSK (TKIP) and WPA2-PSK (AES);
- Operating Frequency: 2.4GHz and 5GHz Dual-Band;
- Ways for transmission and reception: 2T2R / 3T3R;
- Maximum bandwidth transmission: 54Mbps 802.11g, 300Mbps 802.11n and 1.3Gbps in 802.11ac.

Management and Procurement

- Management conformity with ITU-T 984.4 OMCI;
- Provisioning with Serial Number and password discovery, in conformity with ITU-T G.984.3;
- Bandwidth configuration per service or port (fixed, assured and max);
- All services provisioned, included Ethernet, POTs and WiFi;

- Alarms and Performance monitoring;
- MIB manipulation by OMCI commands like Create, Delete, Set, Get, Get Next;
- Firmware image remote download feature;
- Two repositories for firmware upgrade, for integrity check and automatic rollback in case of failure;
- Remote provisioning and rebooting;
- Web-Based management;

Certifications

- CISPR Class B
- CSA/NRTL (UL1950, CSA 22.2.950), TUV/GS (EN60950), CB

Items Included

- Power Supply is not included
- Product manual in the languages:
 - Portuguese
 - Spanish
 - English

Compatibility

Compatible with GPON Standalone Optical Concentrator, models:
FK-OLT-G4S - Code 35510190
FK-OLT-G8S - Code 35510249

Chassis:

OLT GPON FK-OLT-G2500 - Code 35510205

Warranty

- One-year warranty.
- Software Technical Validity: 365 days.

In order to guarantee the proper system operation, the equipment compatibility is only ensured with Furukawa's GPON OLTs. All technical support activities by Furukawa are conditioned to this observance.

[Part Numbers](#)