



INNBOX G22

GPON FTTH ONT

By introducing latest fiber GPON access technology, Innbox brings carrier class high-end networking solution for advanced triple play services. Complying with the latest ITU-T G.984 GPON standard, the newly introduced Innbox GPON G21 ONT is designed for service providers to meet the demand for desired high-speed connections. The ONT is designed for indoor applications, presenting lower cost alternative to outdoor solutions, significantly lowering CAPEX with advanced FTTH deployments.

The FTTH GPON ONT Innbox G22 is designed to deliver full range of services: internet data, Voice over IP (VoIP) and IP video including bandwidth consuming HDTV. QoS and multicast video support are also included within this smallest possible yet stylish form-factor. Furthermore when taking into account the enduser's existing copper wiring, Home Gateway Innbox G22 is equipped with a RF video output, eliminating the need for set-top boxes, since video is broadcasted in the same manner as with an analog cable system. The G22 ONT is ideal for FTTH or small business deployments in bridging-only applications where high-speed data must be transported reliably. The ONT also operates well in conjunction with separate Home Gateway devices such as routers and WiFi access points to provide flexible triple-play configurations. The Innbox G22 ONT is also manageable remotely and supports full range FCAPS functions including supervision, monitoring and maintenance.

Key Features and Benefits >

ITU G.984 GPON compliant

Powerful engine for offering QoS on 3Play services

Multiple interface options: Gigabit Ethernet, CATV RF

Multicast video

Small and stylish form-factor

Fiber Termination Unit as an add-on

Many management options

TECHNICAL SPECIFICATIONS

Note: some features are hardware dependant;
some feature may not be included in dedicated software release.

WAN Specifications

- Full ITU-T G.984 compliance
- SC/APC connector
- Tx (1.25Gbps upstream data rate)
 - 1310nm (Launch Power: 0,5 to +5 dBm)
- Rx (2.5Gbps downstream data rate)
 - 1490nm (Input power overload: -8 dBm, Sensitivity: -28dBm)

GPON

- Fully ITU-T G.984 compliant framing
- Multiple T-CONTs per device
- Multiple GEM Ports per device
- Activation with automatic discovered SN and password in conformance with ITU-T
- AES-128 Decryption with key generation and switching
- FEC (Forward Error Correction)
- 802.1p mapper service profile on U/S
- Support for Multicast GEM Port

Local Interface

- 1x Gigabit Ethernet 10/100/1000Base-TX (RJ-45 jack)
 - Automatic MDI/MDIX crossover, Auto-negotiation and speed-auto-sensing, Half/Full duplex support
 - Meets IEEE 802.3 specifications
- RF Video Overlay (F-type connector)
 - RF Output Level 18dBmV/ch (Total RF output power 36dBmV)
 - RF Passband: 54 MHz - 1002 MHz

Bridging

- Bridging and switching (802.1d / 802.1q)
- Four traffic classes with 802.1p
- 802.3n flow control
- Up to 128 MAC address entries
- VLAN tagging / untagging
- VLAN stacking (Q-in-Q)
- MAC limiting
- 2,000 bytes max Ethernet frame size

IP TV

- IGMP multicast
- IGMP snooping

Configuration & Network Management

- OMCI
- CLI
- Web UI
- Telnet

Bandwidth/Distance

- Compliant with ITU-T G.984.5, Class B+
 - APD receiver and DFB transmitter
 - 0.5~+5dBm launch power, -28 dBm sensitivity and -8dBm overload

Power

- External 115-230 VAC, 50 - 60 Hz, 1A 12VDC
- Power consumption, 5-8W

Physical dimensions

- Modem: 147 x 118 x 32 mm, weight 220g (without AC Power supply)
- Box: 216 x 155 x 55 mm, weight 0.5 kg

Environment

- Operating Temperature: 5°C ~ 45°C, Humidity: 5% ~ 85% (non condensing), compliant with ETSI 300 019-1 –3, Class 3.1
- Storage Temperature: -25°C ~ +55°C, Humidity: 10% ~ 95% (non condensing), compliant with ETSI 300 019-1 –1, Class 1.2

Certification

- CE, CB, RoHS compliant

Ordering info

Model	Local Interfaces
Innbox G22	1xGE, CATV

