



# INNBOX G21

## 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 G21 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. The G21 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 G21 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

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

### 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

### Bandwith/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, 12VDC
- Power consumption, 3-5W

### Physical dimensions

- 125mm x 90mm x 32mm, weight 0.25 kg (without AC Power supply)

### 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

### Optional accessories

- Fiber Termination Unit (FTU)

### Certification

- CE, CB, RoHS compliant

### Ordering info

| Model      | Local Interfaces |
|------------|------------------|
| Innbox G21 | 1xGE             |

