

inbox

# INNBOX G23

## GPON FTTH ONT

ISKRATEL  
S&T Group

Full gigabit  
throughput



Extreme versatility  
of deployment



Robustness  
and efficiency

Fully compliant with ITU-T G.984 GPON fibre-access standard, **Innbox G23** GPON ONT delivers a high-end networking solution for advanced triple-play services with unparalleled user experience. Its supports data rates up to 2.5 Gbps in downstream, up to 1.25 Gbps in upstream, and full gigabit throughput on its LAN interface.

Innbox G23 GPON ONT is an ideal choice for dual-box FTTH setups in **single- or multi-operator** environments. The cost-optimised Innbox G23 significantly lowers the CAPEX of advanced FTTH deployments.

Innbox G23 GPON ONT supports the delivery of all **triple-play services**, such as internet data and IP video, including bandwidth-consuming ultra-high-definition (UHD) TV.

This compact, stylish ONT is suitable for residential FTTH or small business deployments. Equipped with one **gigabit Ethernet port** and operating in bridging mode, it is an ideal choice for dual-box FTTH setups in single- or multi-provider environments. In conjunction with a separate router, home gateway or Wi-Fi access point, the flexibility of deployment is limited only with operator's imagination.

Innbox G23 is **fully manageable** remotely, with full FCAPS support.

### KEY FEATURES AND BENEFITS

- Fully ITU G.984 GPON compliant
- Powerful forwarding engine with QoS assurance
- Support for multicast video



### WAN specifications

- Full compliance with ITU-T G.984.5 GPON, Class B+
- SC/APC connector
- DFB transmitter, 1310 nm, 1.25 Gbps upstream
  - Launch power from 0.5 dBm to 5 dBm
- APD receiver, 1490 nm, 2.5 Gbps downstream
  - Input overload -8 dBm, sensitivity -28 dBm

### GPON

- Fully ITU-T G.984 compliant framing
- Multiple T-CONTs per device
- Multiple GEM ports per device
- Multicast GEM port
- Activation with auto-discovery of SN and password in conformance with ITU-T
- AES-128 decryption with key generation and switching
- Forward error correction
- 802.1p mapper service profile on upstream

### Local interface

- One port Gigabit Ethernet 10/100/1000Base-TX (RJ-45)
  - Automatic MDI/MDIX crossover
  - Auto-negotiation and speed auto-sensing
  - Half/full duplex support
  - Compliance with IEEE 802.3
- Support for 802.1Q and 802.1p VLAN

### Bridging

- Ethernet bridging/switching per IEEE 802.1D/802.1Q
- Four traffic classes as per IEEE 802.1p
- Flow control as per IEEE 802.3n
- 128 MAC address entries
- Automatic MAC learning and aging
- VLAN tagging/untagging
- VLAN stacking (Q-in-Q)
- MAC limiting

### IPTV

- IGMP multicast
- IGMP snooping

### Configuration and network management

- OMCI
- CLI

### Power

- External 115-230 V AC, 50-60 Hz, 12 V DC 0.5 AA

### Physical dimensions (WxDxH)

- 90 mm x 73 mm x 25.2 mm

### Environment

- Operating: +5..+45 °C, RH 5..85% non-condensing, compliant with ETSI 300 019-1-3, Class 3.1
- Storage: -25..+55 °C; RH 10..95% non-condensing, compliant with ETSI 300 019-1-1, Class 1.2

### Certification

- CE, CB, RoHS, UA compliant

Some features are hardware-dependent.

Some features might not be included in dedicated software releases.

Date of issue: 7 October 2021 / Version 3.0



**ISKRATEL**  
S&T Group

Iskratel, d. o. o., Kranj  
Ljubljanska cesta 24 a  
SI 4000 Kranj, Slovenia

P +386 4 207 20 00  
F +386 4 207 27 12

info@iskratel.si  
www.innbox.net  
www.iskratel.com



Telco



Transport



Energy



Public Safety