innbox

INNBOX G21

GPON FTTH ONT

ISKRATEL
S&T Group

LINDSAY BROADBAND

| Full gigabit throughput | Extreme versatility of deployment | Broad management capabilities |

By introducing the latest GPON fiber-access technology, Innbox brings a carrier-class, high-end networking solution for advanced triple-play services. Complying with the latest ITU-T G.984 GPON standard, **Innbox G21** GPON ONT is designed for service providers meeting the demand for high-speed connections, and offers data rates up to 2.5 Gbps in downstream and up to 1.25 Gbps in upstream.

The **Innbox G21** is designed for indoor applications, as a cost-optimal alternative to outdoor solutions, and significantly lowers the CAPEX of advanced FTTH deployments.

Innbox G21 GPON ONT supports the delivery of all triple-play services: internet data, voice over IP, and IP video, including ultra-high-definition (UHD) TV.

This compact, stylish ONT is suitable for residential FTTH or small business deployments. Operating in bridging mode and equipped with one gigabit Ethernet port, it is an ideal choice for two-box setups in either single- or multi-provider environments.

In conjunction with a separate home gateway, router or Wi-Fi access point, the deployment flexibility is limited only with operator's imagination.

Innbox G21 is remotely manageable with full FCAPS support.

KEY FEATURES AND BENEFITS

- ITU G.984 GPON compliant
- Powerful engine for QoS assurance
- Support for multicast video
- Fiber-termination unit as an add-on
- Various management options

WAN specifications

- Full ITU-T G.984 compliance
- SC/APC connector
- Tx (1.25 Gbps upstream data rate)
  - 1310 nm; launch power from 0.5 dBm to +5 dBm
- Rx (2.5 Gbps downstream data rate)
  - 1490 nm; input power overload -8 dBm, sensitivity -28 dBm

GPON

- Fully ITU-T G.984 compliant framing
- Multiple T-CONTs per device
- Multiple GEM ports per device
- 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
- Support for multicast GEM port

Bandwidth/Distance

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

Local interfaces

- 1 port Gigabit Ethernet 10/100/1000Base-TX (RJ-45)
- Automatic MDI/MDIX crossover, Auto-negotiation and speed auto-sensing, half/full duplex support
- Meets IEEE 802.3 specifications
- 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
- 2,000 bytes maximum Ethernet frame size

IPTV

- IGMP multicast
- IGMP snooping

Configuration and network management

- OMCI
- CLI
- Web user interface
- Telnet

Power

- External 115-230 VAC, 50-60 Hz, 12 VDC
- Power consumption 3-5W

Physical dimensions

- 125 mm × 90 mm × 32 mm
- 0.25 kg (without power adapter)

Environment

- Operating: 5°C to +45°C, RH 5-85% non-condensing, compliant with ETSI 300 019-1-3, Class 3.1
- Storage: -25°C to +55°C; RH 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 code	Description
LBB-2611	Innbox G21 GPON ONU with 1x GE

Some features are hardware-dependent.
Some features might not be included in dedicated software releases.
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