



INNBOX G74

High-Performance GPON FTTH Home Gateway

ISKRATEL
S&T Group

LINDSAY
BROADBAND



Full gigabit
throughput



Top-of-the-line
wireless performance



Broad management
capabilities

By introducing the latest fiber 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, the **Innbox G74** GPON home gateway 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 G74** is designed for indoor applications, as a cost-optimal alternative to outdoor solutions, and significantly lowers the CAPEX of advanced FTTH deployments.

Innbox G74 GPON home gateway supports the delivery of all triple-play services: internet data, voice over IP, and IP video, including bandwidth-consuming HDTV. It provides four full-gigabit Ethernet ports, as well as wireless access point of the latest **802.11n** standard that relieves the users of those troublesome wirings.

A **Wi-Fi access point** (802.11b/g/n at 2.4 GHz) with internal 2x2 antennas facilitates the

delivery of services to all wireless devices with uncompromised user experience.

Adding to local connectivity, Innbox G74 offers two ports for telephony services, using a SIP-compatible VoIP technology.

With embedded NAT, firewall and IP sharing, Innbox G74 delivers a **secure internet access** that can be shared by all connected clients.

A USB 2.0 host port is available to enable **value-added features**, such as a file server, an FTP server, a printer server, a hub or an external 3G/LTE modem. In addition, the Innbox G74 embeds a Quality of Experience (QoE) monitoring client which enables on-line evaluation of the data path all the way to the gateway, reflecting in a significantly **lower operator OPEX**.

KEY FEATURES AND BENEFITS

- ITU G.984 GPON compliant
- Powerful full-gigabit engine for enhanced services
- USB 2.0, Gigabit Ethernet, FXS for POTS, 3G/LTE
- 802.11n Wi-Fi access point
- Triple-play home gateway for multiple HDTV IP streams
- Fully-featured router and firewall, with secure wireless transmission and authentication
- Integrated fiber-termination unit (FTU)
- Line-rate routing performance
- Embedded QoE-monitoring solution
- K.21 overvoltage protection on all wired interfaces



WAN specifications
<ul style="list-style-type: none"> Full ITU-T G.984 compliance SC/APC connector Tx (1.25 Gbps upstream data rate) <ul style="list-style-type: none"> 1310 nm; launch power from 0.5 dBm to +5 dBm Rx (2.5 Gbps downstream data rate) <ul style="list-style-type: none"> 1490 nm; input power overload -8 dBm
GPON
<ul style="list-style-type: none"> 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 U/S Support for multicast GEM port
Bandwidth/Distance
<ul style="list-style-type: none"> Compliant with ITU-T G.984.5, Class B+ APD receiver and DFB transmitter From 0.5 dBm to +5 dBm launch power -27 dBm sensitivity; -8 dBm overload
Local interfaces
<ul style="list-style-type: none"> 4 ports Gigabit Ethernet 10/100/1000Base-TX (RJ-45) <ul style="list-style-type: none"> 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 2 port FXS (RJ-11) for POTS connection 1 port USB 2.0 with host connector
Wireless
<ul style="list-style-type: none"> 802.11b/g/n 2x2 WLAN access point with internal antennas Wi-Fi protected setup (WPS) WEP with 64- or 128-bit key lengths WPA/WPA2 in PSK mode or using EAP with RADIUS Access control list based on MAC address
Bridging
<ul style="list-style-type: none"> Ethernet bridging/switching per IEEE 802.1D/802.1Q Traffic management (priority queuing, traffic shaping) QoS with support for IEEE 802.1p and DSCP Per-port IEEE 802.1Q VLAN ID processing VLAN tagging/untagging IGMP v2/v3 snooping Automatic MAC learning and aging Unlimited MAC addresses for OMCI-configured flows Support for 4096 MAC addresses for RG traffic flows Broadcast storm control
IP routing
<ul style="list-style-type: none"> IP routing: RIP1, RIP2, static routing RFC2684 (RFC1483) routed PPPoE client, PPPoE pass-through DHCP client, server and relay (RFC2131) (D)DNS client and relay IP multicast IGMP proxy RTP proxy PPPoE NAT/NAPT with port forwarding

USB 2.0 applications	
<ul style="list-style-type: none">• File server (using USB 2.0 disk, flash or HDD), DLNA• Printer server• Hub connectivity• 3G or LTE modem (optional)	
Security and QoS	
<ul style="list-style-type: none">• NAT (RFC3022) basic firewall with extensive ALG support• Firewall with well-known applications setup• URL filtering• Time scheduler (parental control)• DMZ/IP pass-through• VPN pass-through• ToS/DSCP-to-CoS mapping• Bandwidth reservation• Voice traffic prioritization	
Configuration and network management	
<ul style="list-style-type: none">• OMCI• UPnP/DLNA• Simple port configuration• Telnet for local or remote management• Web for firmware upgrade and configuration• Web-based management (multi-level GUI)• TR-069 data-frame model, TR-098, TR-104, TR-106• IxRave QoE monitoring client of Ixia® (optional), TR-143• IPERF and TCP dump (optional)• Buttons: WLAN, WPS, reset	
Voice support	
<ul style="list-style-type: none">• G.711 (64 kbps, A-law, μ-law), G.729ab (8 kbps) (optional)• Line echo cancellation G.168 with configurable tail• Voice-activity detection, Comfort noise generation• Adaptive jitter buffer and packet-loss compensation• DTMF dialing, modem/fax tone detection, pass-through• SIPv2 (RFC 3261), RTP (RFC3550)• RTP profile for audio and video conferences (RFC 3551)• RTP payload for DTMF events (RFC2833)• Caller ID (Type-1 and 2)• T.38 Fax	
Power	
<ul style="list-style-type: none">• External 115-230 VAC, 50-60 Hz, 12 VDC 1.5 A• Power consumption less than 15W	
Physical dimensions	
<ul style="list-style-type: none">• 141 mm × 243 mm × 25 mm• 0.45 kg (without power adapter)	
Environment	
<ul style="list-style-type: none">• Operating: 0°C to +48°C, RH 5-90% non-condensing, compliant with ETSI 300 019-1-3, Class 3.1• Storage: -20°C to +70°C; RH 10-95% non-condensing, compliant with ETSI 300 019-1-1, Class 1.2	
Certification	
<ul style="list-style-type: none">• CE, CB, RoHS compliant	
Ordering code	Description
LBB-2848	Home Gateway Innbox G74, 4x GE, 2x FXS, 2x USB, UPS, WiFi 802.11N 2x2 w/ CUL power adapter

Some features are hardware-dependent.

Some features might not be included in dedicated software releases.

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