

The logo for Innobox, featuring the word "innobox" in a stylized, lowercase font with a blue square icon above the "i".

# INNBOX X22

## XGS-PON FTTH Home Gateway

**ISKRATEL**  
S&T Group

**LINDSAY**  
BROADBAND



Multi-gigabit  
throughput



Line-rate forwarding  
performance



Robustness  
and efficiency

Complying with the latest ITU-T G.9807 XGS-PON fiber-access standard, **Innobox X22** XGS-PON home gateway delivers a high-end networking solution for advanced triple-play services, and an unparalleled user experience. Its XGS-PON network interface supports symmetrical data rates of **10 Gbps in downstream and upstream**, while its **multi-gigabit LAN interfaces** provide full flexibility with support for 10 Gbps, 5 Gbps, and 2.5 Gbps.

The **Innobox X22** is an ideal choice for two-box FTTH deployments, in either single- or multi-operator setups.

**Innobox X22 XGS-PON home gateway** supports the delivery of all triple-play services: internet data, voice over IP, and streaming IP video, including bandwidth-consuming ultra-high-definition (UHD) TV.

In addition to one gigabit Ethernet port, Innobox X22 provides one ten-gigabit port which supports **multi-gigabit speeds (10/5/2.5 Gbps)** over twisted pair.

### KEY FEATURES AND BENEFITS

- ITU G.9807 XGS-PON compliant
- Powerful multi-gigabit home-gateway engine
- Multi-gigabit (10/5/2.5 Gbps) Ethernet LAN interface
- Triple-play home gateway for multiple HDTV IP streams
- Line-rate forwarding performance
- K.21 overvoltage protection on all wired interfaces



<b>WAN specifications</b>
<ul style="list-style-type: none"> <li>• XGS-PON</li> <li>• SC/APC connector</li> <li>• SFF optical transceiver module <ul style="list-style-type: none"> <li>• Tx (10 Gbps upstream data rate)</li> <li>• Rx (10 Gbps downstream data rate)</li> </ul> </li> <li>• Compliant with ITU-T G.9807, Class N1/N2/E1 <ul style="list-style-type: none"> <li>• APD receiver and DFB transmitter</li> <li>• +4 to +9 dBm launch power</li> <li>• -28 dBm sensitivity with -9 dBm overload</li> </ul> </li> </ul>
<b>xPON</b>
<ul style="list-style-type: none"> <li>• Fully ITU-T G.9807 compliant framing</li> <li>• Multiple T-CONTs per device</li> <li>• Multiple GEM ports per device</li> <li>• Activation with auto-discovery of SN and password in conformance with ITU-T</li> <li>• AES-128 decryption with key generation and switching</li> <li>• Forward error correction</li> <li>• 802.1p mapper service profile on upstream</li> <li>• Support for multicast GEM port</li> </ul>
<b>Local interfaces</b>
<ul style="list-style-type: none"> <li>• 1 port multi-gigabit Ethernet (RJ-45), supporting 10GBase T (10 Gbps), 5GBase T (5 Gbps), and 2.5GBase T (2.5 Gbps)</li> <li>• 1 port Gigabit Ethernet 10/100/1000Base-TX (RJ-45)</li> <li>• Automatic MDI/MDIX crossover, Auto-negotiation and speed auto-sensing, half/full duplex support</li> <li>• Meets IEEE 802.3 specifications</li> <li>• Support for 802.1Q and 802.1p VLAN</li> </ul>

<b>Bridging</b>	
<ul style="list-style-type: none"> <li>• Ethernet bridging/switching per IEEE 802.1D/802.1Q</li> <li>• Traffic management (priority queuing, traffic shaping)</li> <li>• QoS with support for IEEE 802.1p</li> <li>• Per-port IEEE 802.1Q VLAN ID processing</li> <li>• VLAN tagging/untagging</li> <li>• IGMP v2/v3 snooping</li> <li>• Automatic MAC learning and aging</li> </ul>	
<b>IPTV</b>	
<ul style="list-style-type: none"> <li>• IGMP multicast</li> <li>• IGMP snooping</li> </ul>	
<b>Configuration and network management</b>	
<ul style="list-style-type: none"> <li>• OMCI</li> <li>• Web for firmware upgrade</li> </ul>	
<b>Power</b>	
<ul style="list-style-type: none"> <li>• External 115-230 VAC, 50-60 Hz, 12 VDC</li> <li>• Power consumption 3-5W</li> </ul>	
<b>Physical dimensions</b>	
<ul style="list-style-type: none"> <li>• 146 mm x 114 mm x 27 mm</li> <li>• 0.25 kg (without power adapter)</li> </ul>	
<b>Environment</b>	
<ul style="list-style-type: none"> <li>• Operating: +5°C to +45°C, RH 5-85% non-condensing, compliant with ETSI 300 019-1-3, Class 3.1</li> <li>• Storage: -25°C to +55°C; RH 10-95% non-condensing, compliant with ETSI 300 019-1-1, Class 1.2</li> </ul>	
<b>Certification</b>	
<ul style="list-style-type: none"> <li>• CE, CB, RoHS compliant</li> </ul>	
<b>Ordering code</b>	<b>Description</b>
LBB-3003	Innbox X22 XGS-PON ONU with 1x 10GE and 1x GE

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