

Iskratel Innbox X24

XGS-PON FTTH ONT

Key features

- Multi-gigabit XGS-PON ONT with line-rate forwarding
- One multi-gigabit (10/5/2.5/1 Gbps) LAN interface
- One GE LAN interface optional
- Integrated fibre-termination unit (FTU)
- Integrated speed test
- K.21 overvoltage protection



Iskratel Innbox family of CPE is a product pillar of Iskratel, a specialised telco brand of Kontron. Iskratel unites eight decades of expertise with Kontron's reach and strength.

Iskratel Innbox X24 is a compact XGS-PON ONT that delivers advanced multi-gigabit services for an unparalleled user experience. Its XGS-PON WAN interface supports symmetrical data rates of **10 Gbps in downstream and upstream**, while its **multi-gigabit LAN interface** supports 10 Gbps, 5 Gbps, 2.5 and 1 Gbps on the same port.

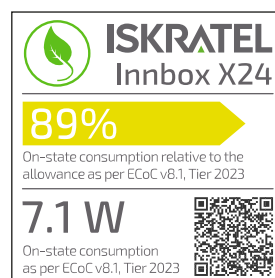
Innbox X24 supports a smooth delivery of services such as internet data, voice over IP and streaming IP video, including multiple bandwidth-consuming UHD TV streams simultaneously.

Innbox X24 is equipped with one **10-gigabit** Ethernet port featuring **multi-gigabit speeds (10/5/2.5/1 Gbps)** over a single twisted-pair LAN port.

An additional GE LAN port is available in a dedicated version of the product.

Innbox X24 is an ideal choice for **dual-box FTTH setups**, in either single- or multi-operator environments.

The device hosts an **integrated FTU** that simplifies installation and deployment, and provides efficient protection of fibre termination, coiling and splice.



Multi-gigabit throughput



Line-rate forwarding performance



Robustness and efficiency

WAN specifications

- XGS-PON (ITU-T G.9807), Class N1/N2/E1
- SC/APC connector
- DFB transmitter, +4..+9 dBm launch power
- APD receiver, -8 dBm input power overload, -28 dBm sensitivity
- 10 Gbps downstream and upstream data rates
- Multiple T-CONTs and GEM ports, multicast GEM
- Auto-discovery of SN and password, ITU-T conformant
- AES-128 decryption, key generation and switching
- Forward error correction
- 802.1p mapper service profile on U/S

LAN interfaces

- One multi-gigabit Ethernet port, 100/1000/2.5G/5G/10G Base-T (RJ-45)
- One Gigabit Ethernet port, 10/100/1000Base-TX (RJ-45); optional in a dedicated product version
- Automatic MDI/MDIX crossover, Auto-negotiation and speed auto-sensing, half/full duplex support
- Compliance with IEEE 802.3

Bridging

- Ethernet bridging/switching per IEEE 802.1D/.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 multicast snooping
- Automatic MAC learning and aging
- Unlimited MAC addresses for OMCI-configured flows
- 4096 MAC addresses for RG traffic flows
- Broadcast storm control

Configuration and network management

- OMCI
- UPnP
- 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
- TR-143 testing and troubleshooting tools
- IPERF and TCP dump (optional)
- Integrated speed test

Environment

- Operating: 5..40 °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

Physical dimensions

- 139 mm × 100 mm × 40 mm
- 0.16 kg (without power adapter)

Power

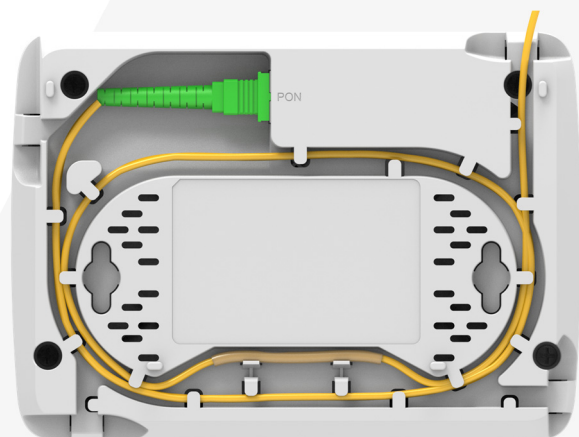
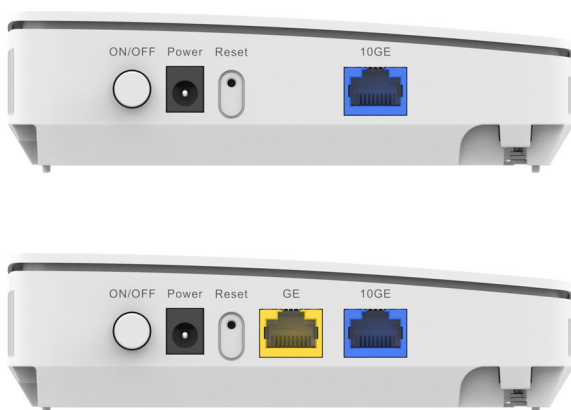
- External adapter 115-230 V AC, 50-60 Hz, 12 V DC
- Power consumption (including adapter):
 - Innbox X24 with 10GE and GE LAN: 7.1 W in On-state, 5.6 W in Ready-state; CoC compliant, Tier 2023, 89% consumption On-state
 - Innbox X24 with 10GE LAN only: 7.0 W in On-state, 6.8 W in Ready-state; CoC compliant, Tier 2023, 91% consumption On-state
- EcoDesign compliant, HiNA equipment, Off mode 0.1 W

Certification

- CE, UKCA, CB, RoHS compliant



Some features may be hardware-dependent or might not be included in all software releases. The operation may depend on network setup and/or service model. No rights can be derived from this datasheet.



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