Iskratel Innbox X24

XGS-PON FTTH ONT

Key features

Multi-gigabit XGS-PON ONT with line-rate routing

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 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.
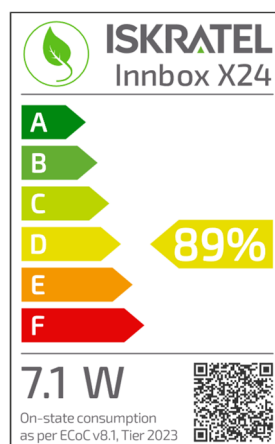
Iskratel Innbox X24 is an XGS-PON ONT that supports the delivery of advanced triple-play services: internet data, voice over IP and streaming IP video, including multiple bandwidth-consuming UHD TV streams simultaneously.

Iskratel Innbox X24 provides one 10-gigabit Ethernet port which supports 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.

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

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

ISKRATEL
Innbox X24

A
B
C
D **89%**
E
F

7.1 W

On-state consumption as per ECoC v8.1, Tier 2023

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
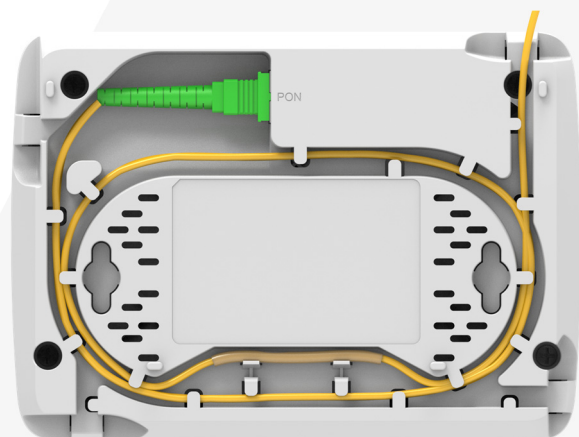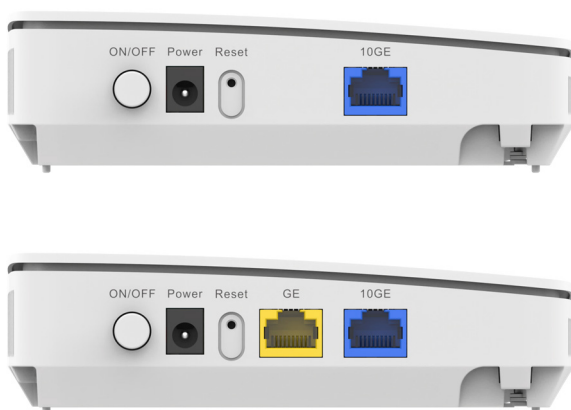- 0.16 kg (without power adapter)

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 (101% as per Tier-2025)
  - 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 (104% as per Tier-2025)
- 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.