



Iskratel Innbox X24RP

Robust XGS-PON FTTH ONT with PoE

Key features

- Robust PoE-fed XGS-PON ONT for indoor or outdoor use
- Multi-gigabit device with line-rate forwarding
- One multi-gigabit LAN with PoE passive PD
- One GE LAN, one FXS port
- Mounting on wall, rail, desktop, in enclosure
- Ambient temperature from -40 °C to 65 °C

Iskratel Innbox X24RP is a **robust, temperature-hardened** XGS-PON ONT that delivers a high-end home-networking solution for advanced services with 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 interface** supports 10 Gbps, 5 Gbps, 2.5 Gbps and 1 Gbps.

Iskratel Innbox X24RP can be powered remotely via **Power over Ethernet (PoE)**, or locally with a power-supply adapter.

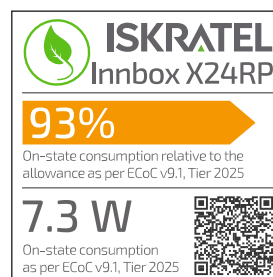
Iskratel Innbox X24RP is a robust **XGS-PON ONT** for the delivery of bandwidth-consuming services: internet data, voice over IP and streaming IP TV/video, including multiple simultaneous UHD TV streams.

Iskratel Innbox X24RP has a 10-gigabit Ethernet port which supports **multi-gigabit speeds (10/5/2.5/1 Gbps)** and can also be used to **power the device via Power over Ethernet (PoE)**.

An additional **gigabit Ethernet** port and an **FXS port** providing SIP-compatible VoIP services add to LAN connectivity options.

The devices' **hardened design** and a **super-wide temperature range** ensure full installation flexibility.

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



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, -28 dBm sensitivity, -9 dBm input power overload
- 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 upstream

LAN interfaces

- One multi-gigabit Ethernet port, 100/1000/2.5G/5G/10G Base-T (RJ-45)
- Power over Ethernet (PoE) passive PD
- One Gigabit Ethernet port, 10/100/1000Base-T (RJ-45)
- Automatic MDI/MDIX crossover, Auto-negotiation and speed auto-sensing, half/full duplex support
- Compliance with IEEE 802.3
- One FXS port for POTS connection (RJ-11)

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

Mounting options

- DIN rail mount
- Desktop mount
- Wall mount
- Compatibility with third-party outdoor enclosures

Environment

- Operating: -40...+65 °C ambient plus solar load, RH 5...85% non-condensing, compliant with ETSI 300 019-1-3, Class 3.1
- Storage: -40...+85 °C; RH 10...95% non-condensing, compliant with ETSI 300 019-1-1, Class 1.2

Physical dimensions

- 143 mm × 132 mm × 32 mm
- 0.55 kg (without power adapter)

Power

- External adapter 115-230 V AC, 50-60 Hz, 12 V DC or powered via PoE
- Power consumption (including adapter) 7.3 W in On-state, 7.0 W in Ready-state
- CoC compliant, Tier 2025, 93% consumption On-state

Certification

- CE, CB, FCC, 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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