Wi Fi 6

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Iskratel Innbox U92
Universal Home Gateway and Mesh Wi-Fi Manager

Iskratel Innbox U92 universal home gateway unites VDSL2/ADSL+, copper GE, fibre GE, GPON and 3G/LTE uplink connectivity on a single home-networking device. It slashes stock costs significantly by allowing operators to use a single, universal home gateway regardless of broadband-access technology, and at the same time simplifies the migration between WAN technologies even in single-box setups.

Supporting data rates up to 1 Gbps over P2P and GPON fibre, and 300 Mbps over DSL, Iskratel Innbox U92 easily delivers advanced services, including multiple ultra-high-definition TV streams over a wired or wireless home network. Its embedded Wi-Fi 6 access point uplifts wireless performance to the highest level, while an embedded mesh Wi-Fi controller provides multi-gigabit wireless in even the biggest homes.

Iskratel Innbox U92 arms operators with a box that supports an array of access technologies, be they fibre-based (GPON, P2P), copper-based (VDSL2/ADSL2+, FE, GE), or mobile (3G/LTE).

It supports the delivery of services such as data and IP video – including multiple UHD TV streams – over four Gigabit Ethernet ports and via a dual-band Wi-Fi 6 access point that operates at 2.4 GHz and 5 GHz.

Iskratel Innbox U92 embeds the management of a gigabit mesh Wi-Fi network with seamless roaming and smooth handover, never compromising the supreme user experience.

Adding to connectivity, Iskratel Innbox U92 offers SIP-compatible VoIP services over its two FXS ports. One USB 3.0 host port is available for additional features such as a file server, a VPN server, a printer server, or an external 3G/LTE modem for backup uplink connectivity.

KEY FEATURES AND BENEFITS

- Powerful home gateway for advanced triple-play services and multiple UHD TV IP streams
- Multiple WAN interfaces: VDSL2, ADSL2+, copper FE/GE, fibre FE/GE P2P FTTH, GPON FTTH, 3G/LTE
- Multiple LAN interfaces: Gigabit Ethernet, Wi-Fi 6, Wi-Fi 5, concurrent 2.4 GHz/5 GHz, USB 3.0, FXS POTS
- 1,800 Mbps cumulative Wi-Fi data rate
- Mesh Wi-Fi management
- Smooth multi-streaming and gaming with MU-MIMO
- Integrated fibre-termination unit

Full gigabit throughput

Top-of-the-line wireless performance

Unparalleled reach and coverage

WAN interfaces

- One xDSL port (RJ-11)
  - VDSL2/ADSL2+, full ITU G.993.2 compliance
  - Profiles 8a, 8b, 12a, 12b, 17a, 30a, 35b
  - VDSL2 Annex Q VPlus/35b, G.vector, ATM, PTM, G.INP
- One Gigabit Ethernet 10/100/1000Base-TX (RJ-45)
  - For ETTH and/or dual-box setups
- One SFP cage
  - Gigabit Ethernet SFP transceiver for P2P FTTH
  - GPON ONT SFP transceiver for GPON FTTH
- 3G/LTE modem via USB port (optional)

LAN interfaces

- Four ports Gigabit Ethernet 10/100/1000Base-TX (RJ-45)
  - Automatic MDI/MDIX crossover, Auto-negotiation and speed auto-sensing, half/full duplex support
  - Compliance with IEEE 802.3
- Two ports FXS (RJ-11) for POTS connection
- One port USB 3.0 with host connector

Wi-Fi and Mesh Wi-Fi

- Wi-Fi 6 (802.11ax) 2×2 MU-MIMO at 2.4 GHz and 2×2 MU-MIMO at 5 GHz
- Simultaneous dual-band 2.4 GHz and 5 GHz
- 1,800 Mbps cumulative Wi-Fi data rate (AX1800)
- Internal antennas
- Wi-Fi protected setup (WPS)
- WPA/WPA2/WPA3 in PSK mode or EAP with RADIUS
- Access control list based on MAC address
- Embedded management of mesh Wi-Fi agent APs
- 802.11k/v compliant roaming and band steering

Bridging

- Ethernet bridging/switching per IEEE 802.1D/802.1Q
- Traffic management (priority queuing, traffic shaping)
- QoS with support for IEEE 802.1Q/p and DSCP
- Per-port IEEE 802.1Q VLAN ID processing
- VLAN tagging/untagging
- IGMP v2/v3 snooping
- Support for 4096 MAC addresses for RG traffic flows
- Unlimited MAC addresses for OMCI-configured flows
- Broadcast storm control

IP routing

- 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
- NAT/NAPT with port forwarding

Innbox Premium Application Suite (optional)

- Mobile App: One-touch access to basic CPE configuration and most-used features
- Innbox VPN: Direct and secure private connection to home network from anywhere in the world
- Innbox Share: Private cloud storage for sharing photos, videos, documents, personal files
- MeetInn: Online conferencing, meetings, presentations
- Innbox Advanced Parental Control: Safe use of the internet for children
- IPTV over Wi-Fi: Quality video stream over Wi-Fi
- LXC containerisation: Development and deployment of independent applications without a SW upgrade
- Integrated Speedtest by Ookla™

USB applications

- File server (using USB 3.0 disk, flash or HDD), DLNA
- Printer server
- 3G/LTE modem (optional)

Security and QoS

- NAT (RFC3022) basic firewall with extensive ALG support
- Firewall with well-known applications setup
- URL filtering
- Time scheduler (basic parental control)
- DMZ/IP pass-through
- VPN pass-through
- ToS/DSCP-to-CoS mapping
- Bandwidth reservation
- Voice traffic prioritisation

Configuration and network management

- 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
- TR-143 testing and troubleshooting tools
- IPERF and TCP dump (optional)
- Buttons: WLAN, WPS, reset

Voice support

- 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 dialling, modem/fax tone detection and pass-trough
- 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

- External adapter 115-230 V AC, 50-60 Hz, 12 V DC, 2 A
- Power consumption (including adapter) 10.8 W in On-state, 7.5 W in Ready-state
- CoC compliant, Tier 2020, 65% consumption On-state (73% as per Tier-2024 levels)

Physical dimensions

- 247 mm × 154 mm × 42 mm
- 0.50 kg (without power adapter)

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

Certification

- CE, UKCA, CB, RoHS compliant

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