

ISKRATEL

A brand of Kontron



Iskratel Innbox E106

High-end Ethernet Home Gateway with Tri-Band Wi-Fi 7 and EasyMesh™ Wi-Fi Extender

Key features

2.5 Gigabit Ethernet WAN

9,300 Mbps cumulative Wi-Fi data rate

One 2.5GE LAN and two GE LAN

Tri-band Wi-Fi 7

EasyMesh™ Wi-Fi

Tactile markings for users with sight loss



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 E106 home gateway delivers multi-gigabit connectivity over a **2.5 Gigabit Ethernet uplink** in various setups, from **single-box ETTH** to **dual-box FTTH**. This high-end device unlocks the true potential of gigabit connectivity by providing **multi-gigabit wireless** in even the biggest homes. This state-of-the-art home gateway guarantees uncompromised experience with advanced services and multiple **ultra-high-definition video** streams, delivered over wired or wireless home network.

Innbox E106 supports a smooth delivery of services such as internet and UHD video over **one 2.5 Gigabit Ethernet, two Gigabit Ethernet ports**, or over a **Wi-Fi 7** access point that operates at **2.4 GHz, 5 GHz and 6 GHz** concurrently.

Furthermore, Innbox E106 acts as an **EasyMesh™-compliant controller** for a gigabit mesh Wi-Fi network for a whole-

home coverage. Complemented with EasyMesh™ agent access points, the wireless mesh ensures **seamless roaming and handover** with no service interruptions, never compromising supreme user experience.

The devices' embedded firewall, NAT and IP sharing deliver **secure internet access** to all connected users.



Multi-gigabit
throughput



Top-of-the-line
wireless performance



Unparalleled reach
and coverage

WAN specifications

- 2.5 Gigabit Ethernet 100/1000/2.5GBase-TX (RJ-45)

LAN interfaces

- One port 2.5 Gigabit Ethernet 100/1000/2.5GBase-TX (RJ-45)
- Two ports Gigabit Ethernet 10/100/1000Base-TX (RJ-45)
- One port USB 3.0

Wireless LAN

- Wi-Fi 7 (802.11be) 2x2:2 MU-MIMO at 2.4 GHz, 2x2:2 MU-MIMO at 5 GHz and 2x2:2 MU-MIMO at 6 GHz
- Simultaneous tri-band 2.4 GHz, 5 GHz and 6 GHz
- 9,300 Mbps cumulative Wi-Fi data rate (BE9300)
- Internal antennas
- Wi-Fi protected setup (WPS)
- WPA/WPA2/WPA3 in PSK mode
- Access control list based on MAC address

Mesh Wi-Fi

- Compliance with EasyMesh™
- Embedded EasyMesh™ controller, operating with agent access points via wireless or wired backhaul
- 802.11k/v compliant roaming and band steering

Bridging

- Ethernet bridging/switching per IEEE 802.1D/802.1Q
- Per-port IEEE 802.1Q VLAN ID processing
- VLAN tagging/untagging
- IGMP v2/v3 snooping
- Automatic MAC learning and aging
- 4096 MAC addresses for RG traffic flows
- Broadcast storm control

IP routing

- IP routing: RIP1, RIP2, static; RFC2684 (RFC1483) routed
- PPPoE client, PPPoE pass-through, RTP proxy PPPoE
- DHCP client, DHCP server (RFC2131)
- (D)DNS client and relay
- IP multicast IGMP proxy
- NAT/NAPT with port forwarding
- mDNS
- Support for IPTV

Security and QoS

- NAT (RFC3022) basic firewall
- Time scheduler (basic parental control)
- DMZ/IP pass-through; VPN pass-through
- ToS/DSCP-to-CoS mapping

Configuration and network management

- UPnP
- Simple port configuration
- Telnet for local or remote management
- Web for firmware upgrade and configuration
- Web-based management (multi-level GUI)
- TR-069 with TR-181, TR-104, TR-106
- TR-143 testing and troubleshooting tools
- IPERF and TCP dump (optional)
- Integrated speed test

Environment

- Operating: 0..45 °C, RH 20..90% non-condensing, compliant with ETSI 300 019-1-3, Class 3.1
- Storage: -20..+70 °C; RH 10..95% non-condensing, compliant with ETSI 300 019-1-1, Class 1.2

Physical dimensions

- 175 mm × 118 mm × 72 mm

Power

- External adapter 115-230 V AC, 50-60 Hz, 12 V DC
- Power consumption: TBD

Accessibility

- Raised tactile markings for blind and partially sighted users, in line with ISO 24508:2019 and EAA (European Accessibility Act)

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.