

Innbox E39



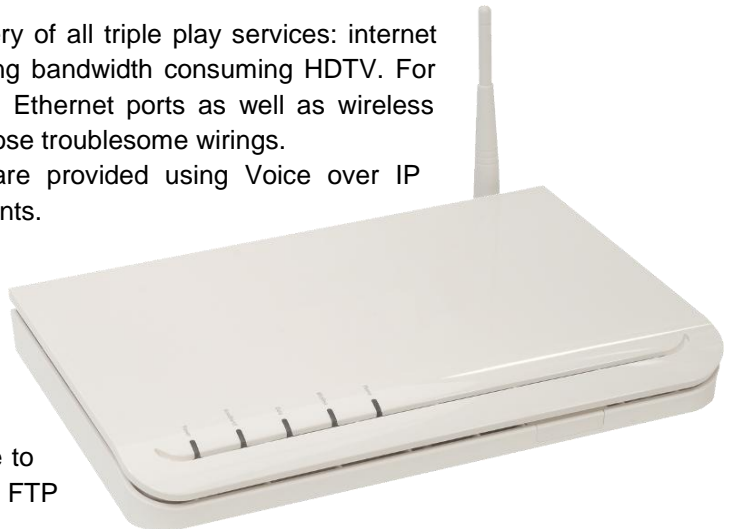
ETTH Home Gateway

By introducing latest Carrier Ethernet access technology, Iskratel brings carrier class high-end networking solution for future triple play services, including multiple HDTV channel support. The Triple Play Home Gateway Innbox E39 combines IP router and powerful home networking engine in single device. It enables service providers to offer WAN connections up to 100 Mbps in both directions with the standard Ethernet technology. The Innbox E39 Home Gateway can be used in Hospitality and Apartment LAN solutions or in combination with Wimax access.

The Home Gateway Innbox E39 supports delivery of all triple play services: internet data, Voice over IP (VoIP) and IP video including bandwidth consuming HDTV. For packet based terminal devices it provides three Ethernet ports as well as wireless access point IEEE 802.11g that brings relief to those troublesome wirings. Additionally two ports for telephony services are provided using Voice over IP technology compatible with SIP server environments.

With embedded firewall and IP sharing technology this Home Gateway delivers secure broadband Internet access to be shared by all connected clients.

Furthermore two USB2.0 host ports are available to enable value-added features such as file server, FTP server or hub connectivity.



The Home Gateway Innbox E39 also embeds special Quality of Experience (QoE) monitoring client which enables on-line evaluation of data path all the way to HGW, which can reflect in significant lower OPEX of operator.

Key Features and Benefits

- Powerful Home Gateway engine for offering 3Play services on broadband connectivity
- Multiple interface options: USB2.0, Ethernet, FXS for POTS, WLAN
- Real 3Play proven Home Gateway to provide multiple HDTV IP streams
- Service separation and prioritization with bandwidth reservation
- Fully featured Router and Firewall, secure wireless transmitting and authentication
- Line rate routing performance (100Mbps)
- Embedded QoE monitoring solution
- Support for centralized management node of multiple CPE (e.g. controlled mass remote SW upgrade and auto configuration provisioning), TR-069 compliant

Technical specifications

Local Interface
<ul style="list-style-type: none"> 3 port Ethernet 10/100Base-TX (RJ-45), complies with IEEE802.3 and IEEE802.3u Automatic MDI/MDIX crossover, Auto-negotiation and speed-auto-sensing, Half/Full duplex support Support for 802.1Q and 802.1p VLAN Internal 802.11g WLAN Access Point with external antenna 2x FXS (RJ-11) for POTS connection 1x FXO (RJ-11) for PSTN/PBX connection (optional)
WAN Specifications
<ul style="list-style-type: none"> 1 port Ethernet 10/100Base-TX (RJ-45), complies with IEEE802.3 and IEEE802.3u 1x FXO (RJ-11) for PSTN/PBX connection (optional)
Bridging
<ul style="list-style-type: none"> Transparent Bridging (IEEE 802.1D) RFC2684 (RFC1483) Bridged Spanning Tree Protocol (IEEE 802.1D) VLAN tagging (IEEE 802.1Q) Service based tagging (SBT) Supporting QoS (IEEE 802.1p) Supporting IP and PPPoE packets filter function Supporting Zero Installation PPP Bridge (ZIPB) IGMP transparent snooping
Routing
<ul style="list-style-type: none"> IP routing: RIP1, RIP2, and static routing RFC2684 (RFC1483) Routed PPPoE client PPPoE pass-through DHCP client, server & relay (RFC2131) DDNS client & relay IP Multicast IGMP Proxy RTP Proxy
Security & QoS
<ul style="list-style-type: none"> NAT (RFC3022) basic Firewall support with extensive ALG support Firewall with well known applications setup URL filtering Time Scheduler (parental control) DMZ/IP pass-through VPN pass-through ToS/DSCP to CoS mapping Bandwidth reservation Voice traffic prioritization
Visual Indicators
<ul style="list-style-type: none"> Power – indicates power status Broadband – indicates broadband connection status. Data – indicates activity on LAN Wireless – indicates WLAN connection status Phone – indicates VoIP service is ready
Environment
<ul style="list-style-type: none"> Operating Temperature: 0°C ~ 45°C, Humidity: 5% ~ 95% (non condensing) Storage Temperature: -20°C ~ +85°C, Humidity: 5% ~ 95% (non condensing)

Certification
<ul style="list-style-type: none"> CE mark, CB, RoHS compliant
Configuration & Network Management
<ul style="list-style-type: none"> UPnP Simple port configuration DHCP server for IP management Telnet for local or remote management WEB for firmware upgrade and configuration WEB-based configuration and management (multi-level GUI) Centralized SI3000 CPE Management Node as option: solid DB, FTP with auto identification TR-069 data-frame model support, including TR-098, TR-104 and TR-106 IxRave QoS monitoring client of Ixia®
Voice support
<ul style="list-style-type: none"> Voice compressions G.711 (64kbps, A-law, μ-law PCM), G.729ab (8kbps) Asymmetric operation of audio coders (US and DS can have different coder types) Line Echo Cancellation G.168 with configurable tail Voice Activity Detection (VAD), Comfort Noise Generation (CNG) Adaptive jitter buffer and Packet Loss Compensation (PLC) DTMF (tone) dialing, modem/fax tone detection and pass-through Supports SIPv2 (RFC 3261), RTP (RFC3550) Supports RTP Profile for Audio and Video Conferences with minimal control (RFC 3551) Supports RTP payload for DTMF events (RFC2833) Caller ID (Type-1 and 2)
USB2.0 applications
<ul style="list-style-type: none"> File server (by using USB2.0 disk, flash or HDD) USB hub (self powered)
Wireless
<ul style="list-style-type: none"> Virtual AP support (Multi SSID) WiFi Protected Setup (WPS) WEP: 64 or 128 bits key length WPA/WPA2 (Wi-Fi Protected Access) in PSK mode or using EAP with RADIUS Access control list based on MAC address
Power
<ul style="list-style-type: none"> External 115-230 VAC, 50 - 60 Hz, 12VDC 1,5A Power consumption, less than 10W
Physical dimensions
<ul style="list-style-type: none"> 233mm x 162mm x 35mm (W x D x H), weight 0.4 kg

Note: some features are hardware dependant; some feature may not be included in dedicated software release.

