Mini EdgeGate Voice over IP and FTTH Media Gateway

Benefits and Features

- **Integrated Voice (VoIP), Video and Data IP media gateway**
- **2 Voice (FXS) ports**
- **3 Data 10/100BaseTX ports**
- **1 Uplink/ WAN port – 10/100BaseTX or 100BaseFX**
- **1 PSTN Life Line port – guarantees phone always-on**
- **1 CLI ports**
- **Enhanced Video capabilities**
- **Full support for ITU SIP, MGCP and H.323**
- **Enhanced L2 switching capabilities**
- **Wire speed performance**
- **Integrated Web server**
- **Automatic tone generation: Dial, Busy, Ring-Back**
- **DTMF detection and generation**
- **Voice activity detection & prioritization**
- **IGMP Snooping**
- **Automatic configuration (BOOTP)**
- **T.38 Facsimile over IP support**

The EdgeGate GW-232 series voice over IP and FTTH media gateways are the most efficient, flexible, and powerful devices in their class. With operations established worldwide, many satisfied end-users benefit from the EdgeGate family use by converging broadband services such as voice, video and data over a single IP infrastructure. The GW-232 supports various configurations of up to 2 analog voice lines and up to 4 10/100 Mbps Ethernet ports, including 100 Mbps Ethernet optical uplink. Thus, the EdgeGate GW-232 series VoIP and FTTH gateways cover the entire spectrum of requirements for both enterprise VoIP environment and remote office connectivity. Furthermore, the EdgeGate GW-232 series platforms are capable of providing Enhanced Layer 2 IP switching with VLAN tagging, TOS marking (L3), security and Quality of Service (QoS) features support.

Fiber-to-the-Home/Apartment (FTTH/A) The EdgeGate's flexible architecture enables it to be the only VoIP gateway platform that supports a variety of transmission technologies, such as 100 Mbps copper or fiber single-mode, multi-mode and even bi-directional (single fiber usage) fiber optics. Fiber support, with 100Mbps bandwidth, enables the end user to enjoy any broadband bandwidth-hungry application, such as Video-On-Demand, and enables the service provider to provide this service in wide distribution area, while maintaining high quality of service.

Voice (VoIP), video and data convergence. The EdgeGate GW-232 series is the ideal CPE solution for service providers looking to deliver voice, video and data over copper/fiber to the end user. As these services are delivered over the same network infrastructure, it is imperative that CPE devices support higher-level Ethernet standards to ensure the successful delivery of voice, video and data. The EdgeGate GW-232 series support 802.1p QoS (voice over data & video priority), 802.1q VLAN tagging, Spanning Tree Protocol and IGMPv2 (for video streaming applications). The EdgeGate GW-232 currently supports all present VoIP protocols including SIP, MGCP and H.323. Other basic protocols, too, can be enabled. This adherence to standards allows users to have maximum interoperability with the existing network infrastructure.

Small and medium enterprises usage. The EdgeGate GW-232 series is the unequivocal solution for small and medium enterprises, due to its unparalleled combination of reliability, functionality, and economy. Users can easily set up phone calls through the IP network while simultaneously use the GW-232 as a high bandwidth enterprise network connection.

Manageability. GW-232 can be managed by CLI, SNMP, HTTP, Telnet, local terminal and download of configuration and new software via DHCP server. In addition, the EdgeGate GW-232 series, like all IP platforms, is supported by BiNOSCenter, the Element/Network Management System.

Specifications

Compatibility:
VoIP: ITU H.323, MGCP, SIP (including NAT solution.)
Voice CODECs: ITU G.711, ITU G.723.1, ITU G.726, ITU G.729A/B
Voice: ITU FXS, ITU T.38 (H.323, SIP), VAD, CNG, Caller ID, 2 REN, RTP, automatic fax/modem detection
Switching: IEEE 802.3, IEEE 802.3u, IEEE 802.1p, IEEE 802.1q, RFC 2068 HTTP, IGMP snooping with fast leave, TOS marking

LAN Interface:
10/100BaseTX
Connector: RJ-45
Transmission: full/half-duplex
Range: 100m

Uplink/ WAN:
100BaseFX single-mode:
Connectors: dual SC
Transmission: full/half-duplex
Optical budget: 14db/30db
Fiber: 9/125 micron, 1310nm
Range: 14km

Telephony Interface:
Analog; Connector: RJ-11 (POTS)

Switching Characteristics:
Technology: ASIC-based parallel store and forward
Address Table: 1K MAC addresses

Forwarding Rate:
10Mbps – up to 14,880 pps
100Mbps – up to 148,800 pps

Indicators:
Management Green flashing (CPU traffic)
Voice Green (Gatekeeper/Controller connection)
Ready Green flashing
Power Green

Management
Internet Web-based management
SNMP Client MIBs MIB II, Private MIB
Interfaces: CLI, Telnet, SNMP, Web; remote auto-configuration via TFTP
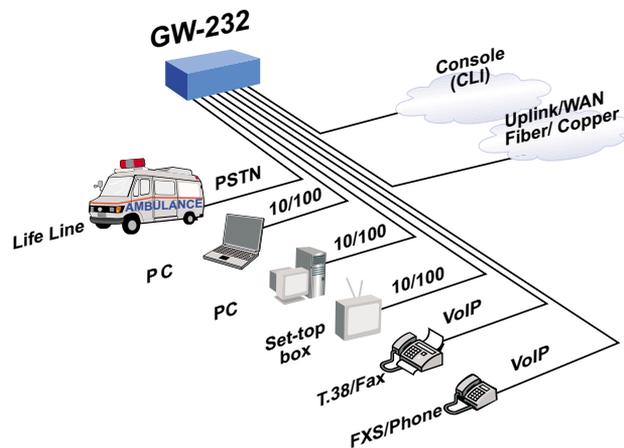SW Download via TFTP

Security
Passwords, encrypted configuration file,
NMS community password

General:
Dimensions H 1.77" x L 7.36" x W 4.72"
H 45 x L 187 x W 120 mm
Power 4.5 VDC external power supply
Weight 1.32 lb, 0.6 kg
Operating Temp. 0° - 45° C (32° - 113° F)
Operating Humidity 10% - 90% non-condensing

Emission and Safety Regulations:
FCC Class B, UL, CUL, CE

GW-232

Console (CLI)
Uplink/WAN Fiber/ Copper
PSTN
10/100
Life Line
AMBULANCE
P C
10/100
PC
10/100
Set-top box
VoIP
T.38/Fax
FXS/Phone
VoIP

Ordering Information

Part Number	Description
GW-232-TX	EdgeGate Mini VoIP and FTTH Switch and Media Gateway with 2 voice ports (FXS), 3 LAN 10/100BaseTX ports and 1 Uplink/WAN 10/100BaseTX port. Onboard PSTN and CLI ports.
GW-232-FX-S	EdgeGate Mini VoIP and FTTH Switch and Media Gateway with 2 voice ports (FXS), 3 LAN 10/100BaseTX ports and 1 Uplink/ WAN 100BaseFX port. Single-mode (1310nm) Uplink optics with SC connector, up to 14Km range. Onboard PSTN and CLI ports.

For alternative solutions, please call.