

EdgeGate® CPE 232

Triple play all-in-one mini CPE



Compact Active Ethernet
FTTH/B Media Gateway

Telco Systems EdgeGate CPE 232 (customer premises equipment) multi-service device is designed to reduce the cost of delivering voice, video, and data services to home and small office/home office (SOHO) premises. Based on the Telco Systems® field-proven and highly reliable EdgeGate technology, which is successfully deployed worldwide, end-users benefit from the EdgeGate CPE's superior voice quality and converged broadband services (video and data) over a single IP infrastructure.

Together with Telco Systems' carrier-class L2/L3 T5C switches, the EdgeGate 232 provides end-to-end Active Ethernet Fiber-to-the-X (home/building/business) solution.

Cost-effective Voice and Video

The EdgeGate 232 device supports an 100M uplink. It offers ILECs, municipalities, utilities, Greenfield developers, and system integrators a cost-effective means to offer voice, video, and data while ensuring competitive pricing as well as a high reliability and availability service.

The EdgeGate 232 supports two analog voice lines (VoIP FXS ports) and three 10/100BaseT Ethernet LAN ports that connects to PCs and TVs and provide both data (Internet) and video services. The optical uplink supports a fast Ethernet transceiver

over traditional fiber pair or single-strand fiber which can cut service delivery costs in half. Full wire-speed Layer 2 switching allows for better Quality of Service (QoS) and service type differentiation, as well as improved services for video streaming and VoIP. This solution enables subscribers to enjoy any broadband bandwidth-hungry application, such as video-on-demand, while maintaining high-quality voice.

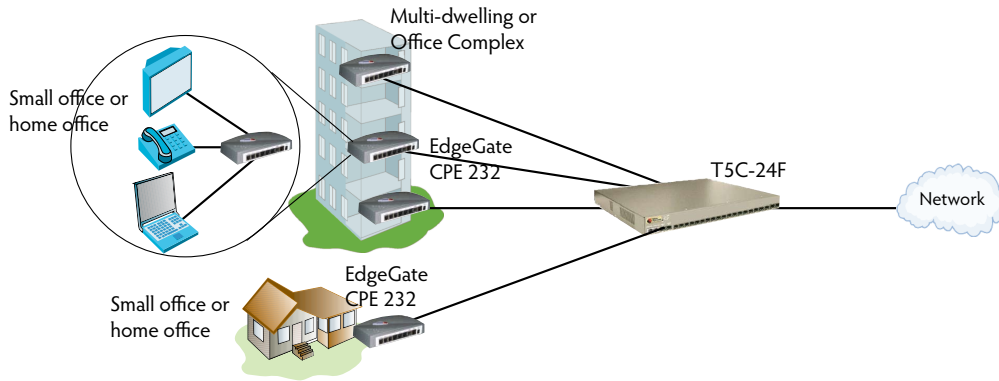
Mixed Services over a Single IP Network

The EdgeGate 232 delivers mixed voice, video, and data services over a single IP network. It provides high-quality voice utilizing 802.1p for voice priority and 802.1q VLAN tagging. The 232 has passed interoperability testing for certification with most major soft switch vendors. Service providers can differentiate their service with advanced features like 3-way calling, call forward and hold, distinctive ring, and T.38 support for fax over IP.

The EdgeGate 232 supports IGMPv2 (including a snooping feature for video streaming) allowing service providers to offer IPTV. This product is standards-based which ensures interoperability with existing network infrastructure, as well as with various session boarder controls, switching, and soft-switching platforms

- Indoor FTTH/B active Ethernet CPE
- Triple Play - Voice (VoIP) video, data and home networking all in one box
- 2 analog voice ports with superior voice quality plus 802.1p Voice priority
- Flexible 100BaseFX uplink options (Bi-directional, MM, & SM)
- IGMP snooping for IPTV and video services
- Part of complete end-to-end solution
- Full SIP and MGCP support
- 3 Data 10/100BaseT LAN ports
- Enhanced Layer 2 switching with QoS
- Layer 3 TOS marking
- VLANs 802.1q
- Auto-configuration and auto-provisioning using TFTP or HTTP

EdgeGate CPE 232 FTTH/B Media Gateway



Key Applications

- End-to-end fiber to the home
- Triple play for campuses and apartment complexes
- Greenfield solution eliminating the need for coax or copper wiring
- Cost-effective solution for MDUs

Specifications

Voice Protocols

SIP (RFC 2543, RFC 3261)
MGCP (RFC 2705, RFC3435, NCS)

CODECS

ITU G.723.1
ITU G.711 (μ-law, A-law)
ITU G.726
ITU G.729
ITU T.38
ITU FXS

(All CODECS are concurrently on both ports)

Voice Features

Automatic fax/modem detection
Voice Activity Detection (VAD)
Comfort Noise Generation (CNG)
RTP voice packet encapsulation
DTMF detection and generation
Interop with most softswitches in the market
Enhanced call features:

Caller ID call hold retail
attended/unattended call forward

3 way conferencing

Automatic tone generation:

dial busy fast busy
ring back stutter tone distinctive ring

Quality of Service (QoS)

IEEE 802.1p
IEEE 802.1q
IEEE 802.1x flow control
16 Virtual LANs (VLAN)
TOS L3 marking on VOIP frames of internal FXS.
Internal priority for VOIP traffic

Video

IGMPv2 Snooping with fast leave
RFC 2236 IGMPv2
RFC 2068 HTTP

Switching Characteristics

Technology Advance chip set based
Store and forward Full wire speed
Address Table 1K MAC addresses

Forwarding Rate

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

General

Dimensions:
H 1.77" x L 7.36" x W 4.72"
H 45 x L 187 x W 120 mm
Power 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

Management

SNMP Client MIBs MIB II
Private MIB
Internet web-based management
Interfaces: TELNET SNMP web
Remote auto configuration:
HTTP
Mass SW download and auto configuration using TFTP or HTTP
RFC1350 TFTP
RFC 2068
RFC 2616 -- HTTP/1.1
RFC 1305 Network Timing Protocol (NTP Version 3)
IP, TCP, UDP, ARP, ICMP
Syslog

Ordering Information

Part Number	Description
GW-232-SFP-X*	EdgeGate CPE GW-232 with 2 FXS voice ports, 3 LAN 10/100BaseTX ports, 1 unpopulated 100Mbps SFP-based WAN/ uplink (requires SFP transceiver*) port and PSTN (life line) port. For VoIP protocol types, please use one of the available suffix options - X=S for SIP, X=M for MGCP
*Recommended SFP Transceivers:	
BTI-SFP-FEX-LC	1 port 100BaseEX Single Mode Mini GBIC transceiver (1310nm), Connector LC, Distance: 40Km.
BTI-SFP-FSM-LC	1 port 100BaseLX SM LC Mini-GBIC transceiver (1310nm), distance 15km
BTI-SFP-FMM-LC	1 port 100BaseSX MM LC Mini GBIC transceiver (1310nm), distance 2km
BTI-SFP-BD-PAIR	SFP bi-directional transceivers pair for single fiber, both ends usage. 2 transceivers are required for coordination receiver and transmitter types. Connector LC, distance 10km



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