Integrated Voice, Video and Data IP Gateway GW-282 Series

Benefits and Features

- **Integrated Voice** (VoIP)**, Video** and **Data** IP media **gateway**
- **Indoor** and **outdoor** (rugged) versions
- Integrated 100/1000 Mbps **fiber-SFP uplink** variety including:
  - **100BaseX of MM, SM and Bi-Directional**
  - **1000BaseX of pluggable SFP (miniGBIC)**
- ☎ **Special options** including: **EPON, CWDM, DWDM**
- **Voice ports** – 2-, 4- or 8-port versions
- **Enhanced Video** capabilities
- **Data 10/100BaseTX switched ports** - 8- or 16-port versions
- **Full support for ITU H.323, MGCP** and **SIP**, MEGACO optional
- **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)
- **Remote maintenance**
- **Special features on Outdoor unit:**
  - **Built in charger + Battery Back up**
  - **Extended temperature**
  - **Meter reading**
  - **Lifeline POTS**
  - **Many more...**

Indoor

Outdoor

Outdoor/Indoor IP Media Gateway for Voice, Video and Data services convergence and FTTH applications

BATM/Telco Systems GW-282 series Integrated IP media gateway is the most efficient, flexible, and powerful device in its class. It's capable of supporting various combinations of 2, 4 and 8 analog voice lines (VoIP FXS ports), 8 or 16 10/100BaseTX Ethernet ports and optical Fast/ Gigabit Ethernet uplink.

The GW-282 gateways cover the spectrum of requirements for the enterprise VoIP environment and remote connectivity for Fiber-to-the-Home/Apartment (FTTH/A) applications.

Fiber-to-the-Home/Apartment (FTTH/A)

The GW-282's flexible architecture enables it to be the only IP gateway platform that supports a wide variety of optical fiber uplinks, it can be configured with either a Fast or Gigabit Ethernet transceiver. Unique advantage of the GW-282 is supporting Single Fiber using Bi-Directional transceivers, thus saving 50% on fiber cost.

Outdoor rugged solution

The GW-282 can be deployed indoors (residence or business) or outdoors in an environmentally controlled cabinet. This cabinet provides **separate** lock-secured access gateways for the Service Provider and end user. The cabinet is designed to support Automated Meter Reading and is equipped to support battery backup for providing Lifeline POTS. The outdoor version of GW-282 has optional support of RF video.

Voice (VoIP), Video and Data convergence

The GW-282 series is the ideal CPE solution for Service Providers looking to deliver voice, video and data over fiber to the end user. The GW-282 series support 802.1p QoS, 802.1q VLAN tagging, Spanning Tree Protocol and IGMPv2.

The GW-282 supports all current VoIP signaling protocols including SIP, MGCP and H.323. Other protocols are optional and can be enabled.

Soon, VoIP support will be delivered with an optional VoIP upgrade kit.

This adherence to standards allows users to have maximum interoperability with existing network infrastructure.

Small Medium Enterprises (SME) usage

The GW-282 series is the ultimate solution for Small Medium Enterprises. Users can easily set up phone calls through the IP network while simultaneously using the gateway as a high-bandwidth enterprise network connection.

Manageability

GW-282 can be managed by SNMP, HTTP, Telnet, local terminal and download of configuration and new software by DHCP server. In addition, the GW-282 series, as all BATM/Telco Systems IP platforms, support BiNOSCenter, the BATM/Telco Systems EMS/NMS Element/Network Management System.

Specifications

Compatibility:
- ITU H.323
- ITU G.723.1
- ITU G.711
- ITU G.729*
- ITU FXS
- IEEE 802.1q
- IEEE 802.3
- MGCP
- SIP
- IGMP v2 Snooping with fast leave
- RFC 2068 HTTP
- RFC 2236 IGMP v2

LAN Interface:

10/100BaseTX
Connector:	RJ-45
Transmission:	Full/Half Duplex
Range:	100m

100BaseFX
Connector:	MT-RJ
Transmission:	Full/Half Duplex
Multi-mode:	62.5/125 micron, 14dB optical budget
Range:	2km

1000BaseSX/LX
Connector:	SFP LC
Transmission:	Full/Half Duplex
Multi-mode:	50/125, 9dB optical budget, 550m
Single-mode:	9/125 micron, 9dB optical budget, 10Km

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

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

Switching Characteristics:
Technology: Advanced chipset based.
Store and Forward, full wire speed
Address Table: 4K MAC addresses
Forwarding Rate:
10Mbps – up to 14,880 pps
100Mbps – up to 148,800 pps
1000Mbps – up to 1,488,000 pps

Management:
SNMP Client MIBs: MIB II, Private MIB
Internet: Web-based management
Interfaces: Telnet, SNMP, Web, Remote
Auto Configuration: DHCP
SW Download: via TFTP

General:
Dimensions:
Indoor: (H) 2.06" x (W) 6.1" x (L) 7.52"
(5.23 x 15.5 x 19.1 cm)
Outdoor: (H) 13.4" x (W) 14.17" x (L) 6.7";
(34 x 36 x 17 cm)

Power:
Indoor: 12 (9-18) VDC External power supply
Outdoor: GW282S-B/C: 90-264 VAC

Weight:
Indoor: 2.42 lbs (1.1 kg) with DC power adapter
Outdoor: 11.55 lb. (5.25 kg)

Operating Temperature:
Indoor: 0° C ~ 45° C (32° F - 113° F)
Outdoor: -25° C - 55° C (-13° F - 131° F)

Operating Humidity: 10% - 90% non-condensing

Emission and Safety Regulations:
FCC Class B (Indoor), Class A (outdoor), UL, CUL, CE

Ordering Information

Part Number	Description	Connector	Distance
GW-282-X-Y	Integrated IP Gateway, Indoors version, with voice support ports, 10/100BaseTX ports, and 100/1000-uplink options. 2 fields parameters are needed for configuration completion		
GW-282S-X-Z	Integrated IP Gateway, Outdoors (System) extended-temperature version, with voice support ports, 10/100BaseTX ports, and 100/1000-uplink options. 2 field parameters are needed for configuration completion		
X=	Voice ports number		
	0=No FXS ports*		
	2=2 FXS ports		
	4=4 FXS ports		
	8=8 FXS ports*		
Y=	Uplink types		
	MT=100Fx MM (850nm)	MT-RJ,	2Km
	LC=100Fx SM (1310nm)	LC	10Km
	BD=100Fx SM Bi-Directional transceiver	LC	20Km
	G=SFP (miniGBIC) unpopulated Gigabit Ethernet module (requires pluggable transceiver)		
Z=	Pre-configured options		
	A=Very low voltage AC power supply and unpopulated SFP (miniGBIC) module		
	B=AC 110/220 VAC, unpopulated SFP (miniGBIC) module		
	C=AC 110/220 VAC, 100BaseLx uplink, connector	LC	10Km
	D=AC 110/220 VAC, 100BaseLx Bi-Directional uplink	LC	20Km
BTI-MGBIC-GLX-LC	1 port 1000BaseLX Single Mode Mini GBIC transceiver (1310nm)	LC	10Km
BTI-MGBIC-GSX-LC	1 port 1000BaseSX Multi Mode Mini GBIC transceiver (850nm)	LC	550m

☎ **Other Optic options** Please contact for other optical options (EPON, CWDM, DWDM and special transceivers)

* optional