

## 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...

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

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

AIRLINX Communications, Inc.  
Box 253  
Greenville, NH 03048  
E-mail: sales@airlinx.com  
Tel: (888) 224-6814  
Fax: (603) 878-0530