



## AT-iBG915FX

### Fast Ethernet Fiber Uplink intelligent Business Gateway

#### AT-iBG915FX

1 x WAN, 100TX or 100BX or 100LX through SFP plug  
5 x 10/100TX, 8 x FXS

#### Broadband Business Gateway for Small-medium Enterprise

The AT-iBG915FX expands Allied Telesis intelligent Business Gateway portfolio with the addition of a Fast Ethernet fiber-based WAN interface. Based on the successful Residential and intelligent Multiservice Gateways, the iBG900 series leverages powerful Layer 2 and Layer 3 functionality and proven VoIP support.

With the addition of the AT-iBG915FX, the gateway family now has a platform that is ideal for small/medium business applications where more than four FXS ports are required.

The AT-iBG915FX through the use of a SFP module can provide either dual fiber single-mode or single-strand single-mode fiber access. The AT-iBG915FX enables FTTH deployments to utilize existing fiber infrastructure between the CO or remote cabinet and new developments, reducing the costs of deploying high revenue generating FTTH equipment.

#### Voice-over-IP

The iBG900 leverages Voice-over-IP signaling protocols such as H.323, SIP and MGCP on FXS interfaces. VoIP interoperability has been established with major softswitch vendors. Furthermore, the iBG900 allows the connection of modems and faxes to its voice ports. Quality of Service is provided through mechanisms such as the Type of Service (ToS), priority tagging of voice traffic using IEEE 802.1p, as well as silence suppression and local generation of comfort noise; the result is an excellent voice quality.

Within a SIP environment, the iBG900 also guarantees local switching of calls among FXS as well as VoIP phones connected to the LAN even when central VoIP service is not available.

#### Real Time Applications Optimization

The iBG900 family supports industry leading Quality of Service (QoS) through ISO Layer 2 and 3 prioritization techniques including priority tagging with IEEE 802.1p, Type of Service and DSCP fields.

#### SOHO and SMB Applications

The AT-iBG915FX gateway is optimized for small and medium-sized business applications supporting up to 8 FXS or 4 FXS ports. The AT-iBG915FX comes in an ultra slim 1U rack-mountable form factor with all the connectors on the front panel for easy integration into any environment.

#### Data Delivery and Security

The extensive support for per port rate-limiting in the iBG900 enables service providers to deliver tiered data services for the wide spectrum of end-customer profiles, providing maximum flexibility in service differentiation.

Security is assured by an integral Stateful Inspection Firewall with NAT and an Intrusion Detection System (IDS) to protect end-users' networks from Denial of Service (DoS), port scanning and Web spoofing.

#### Management and Deployment

The iBG900 series is designed to be easy to deploy and manage. With the AlliedView™-NMS software platform, this family of products can be remotely provisioned and managed. AlliedView software solutions are interoperable, flexible and help manage all of the Allied Telesis products on your network. Easy to use, with a clear graphical interface, these network management tools provide the effective management and monitoring resources that are needed.

In addition, the industry standard TR-069 is fully integrated and provides efficient, scalable and secure provisioning and support for a wide variety of Triple Play services.

#### Key Features

- Fiber WAN interface through use of SFP module (not included)
- Up to 100Mbps bandwidth delivery
- Eight FXS ports for small/medium business applications
- H.323, SIP and MGCP VoIP protocol support
- Major softswitch manufacturer compatibility
- Support for analog (FXS) and VoIP phones
- Triple Play ready
- Stateful Inspection Firewall / NAT
- DMZ support
- Intrusion Detection System: DoS, port scanning and Web spoofing protection
- Managed by the AlliedView NMS management system
- Service specific management and monitoring – ensures Quality of Service to customers
- RoHS compliant



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## Specifications

### WAN Port

100Mbps WAN interface  
10/100TX (RJ-45) on copper OR  
100BX through SFP module  
100LX through SFP module

### User ports

5 x 10/100TX (RJ-45)  
8 x FXS (RJ-11)

### Ethernet

Layer 2 wirespeed packet switching  
Tag-based IEEE 802.1Q VLANs (max 16)  
IEEE 802.1Q tag insertion and stripping  
Port mirroring of ingress/egress traffic  
DHCP client, server and relay  
2K MAC address FDB

### WAN Protocols

PPPoE, PPPoA, IPoA (PAP/CHAP authentication)  
RFC 1483 routed and bridged  
Global IP address pool  
DNS client, relay  
Static and dynamic IP address assignment

### Routing and Multicast

PPP and IP routing  
RIPv1 and v2  
IGMPv2  
IGMP snooping  
IGMP proxy

### Security

NAT  
Stateful Inspection Firewall  
Dynamic port opening  
Intrusion detection and blocking system  
Access Control List  
IPSec/VPN passthrough

### QoS

IEEE 802.1p prioritization  
Programmable ingress/egress rate limiting  
4 QoS queues per port  
DSCP/ToS  
Strict priority/WF2Q+ scheduling  
Stream priority/limiting classification

### VoIP Protocols

H.323 3.0  
SIP 2.0  
MGCP/NCS 1.0

### VoIP Features

G.711 a-law and  $\mu$ -law 64kbps  
G.729 8kbps  
G.726 16/24/32/40kbps  
G.168 LEC 8-32 msec  
T.38 fax relay  
RTP voice packet encapsulation  
Automatic fax/modem detection  
Voice Activity Detection (VAD)  
Comfort Noise Generation (CNG)  
Error mitigation/bad frame interpolation  
Adaptive jitter buffer  
5 REN  
Caller ID  
Call transfer  
Call waiting  
Call hold  
Message waiting  
DTMF relay

### Management

AlliedView-NMS  
TR-069\*  
Telnet  
SSH  
Remote software upgrade  
Web GUI  
CLI  
SNMP v1, v2 and v3  
  
\* The TR-069 will be available in the next software release.

### Status LEDs

Power	
System	
WAN	Link/Activity
LAN	Link/Activity
VoIP	Use/Ready/Ringing

### Memory

RAM:	32MB
Flash:	8MB

### Power Characteristics

Internal power supply  
Input: 100-240V AC, 50-60 Hz  
Max power consumption: 25W

### Environmental Specifications

Operating temperature 0°C to 40°C  
Max operating humidity 80% RH (non-condensing)  
Storage temperature -20°C to 70°C  
Max storage humidity 95% RH (non-condensing)

### Physical Characteristics

Dimensions: 5cm x 20cm x 37cm  
(H x D x W) (2" x 8" x 14.8")

### Approvals and Certifications

CE	
Safety	EN60950
CSA 950/US	
UL 1950	
Emission	FCC Part 15 Class B Part 68 EN55022 Class B
Immunity	EN55024

### Ordering Information

AT-iBG915FX-xx (990-002316-xx)  
1 x Fast Ethernet, 5 x 10/100TX, 8 x FXS

AT-CONSOLECABLE (855-000144)  
Console cable (Cisco pinout)

AT-SPFXBD-LC-13 (990-002083-00)  
100Mbps BiDirectional SFP  
TX = 1310nm  
RX = 1550nm

Where xx =  
00 for no power cord  
10 for U.S. power cord  
30 for U.K. power cord  
40 for Australian power cord  
50 for European power cord

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