

AT-iBG910 ADSL Business Gateway with Analog and Digital VoIP Ports

AT-iBG910A/B

I \times annex A/B ADSL2+, 8 \times 10/100TX, 4 \times FXS, 2 \times ISDN BRI

Broadband Business Gateway for Small-Medium Enterprise

The AT-iBG910 is the family of Business Gateways for small-medium enterprise applications. The AT-iBG910 combines a broadband ADSL2/2+ connection to the WAN with Layer 3 capabilities and enhanced VoIP features set for both analog and digital terminal connections.

Voice over IP

The AT-iBG910 leverages Voice over IP signaling protocols such as H.323, SIP and MGCP on both FXS and ISDN BRI interfaces. VoIP interoperability has been established with major softswitch vendors. Furthermore, the AT-iBG910 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 802.1 p, as well as silence suppression and local generation of comfort noise; the result is an excellent voice quality.

Within a SIP environment, the AT-iBG910 also supports IP PBX functionality that guarantees local switching of calls among FXS and ISDN BRI interfaces as well as VoIP phones connected to the LAN even when central VoIP service is not available.

Real Time Applications Optimization

The AT-iBG910 supports industry leading Quality of Service (QoS) through ISO Layer 2 and 3 prioritization techniques including priority tagging with IEEE 802.1 p, Type of Service and DSCP fields.

The AT-iBG910 is optimized for IP video streaming. The iBG 'snoops' IGMP packets intransit allowing simultaneous delivery of different multicast transmissions such as different movies or TV channels. This enables multiple high-quality, high bit-rate video streams without impacting data traffic or IP telephony while delivering the fast channel change that users expect from video services.

MPEG video service management and diagnosis is possible through dedicated commands and video quality can be monitored using Allied Telesis' unique MPEG stream monitoring tool.

Data Delivery and Security

The extensive support for per port rate-limiting in the AT-iBG910 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 AT-iBG910 is designed to be easy to deploy and manage. With the Zero Touch Configurator (ZTC) software platform, this family of products can be remotely provisioned and managed. ZTC is a distributed configuration system providing secure authentication and registration plus intelligent, automatic configuration of remote iBG units. Its XMLbased structure enables seamless integration with service providers' existing OSS platforms.

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

- ADSL2+ or WAN interface
- H.323, SIP and MGCP VoIP protocol support
- Integrated SIP proxy server
- Major softswitch manufacturer compatibility
- Support for analog (FXS), digital (ISDN BRI) terminal connection and VoIP phones
- Triple Play ready
- Stateful Inspection Firewall / NAT
- DMZ support
- Intrusion Detection System: DoS, port scanning and Web spoofing protection
- Zero Touch Configurator and TR-069 support
- Service specific management and monitoring ensures Quality of Service to customers
- RoHS compliant



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Specifications

Hardware 8 x 10/100TX (RJ-45) 4 x FXS (RJ-11) 2 x ISDN BRI (RJ45) 1 x annex A ADSL2/2+ (RJ-11) (AT-iBG910A) 1 x annex B ADSL2/2+ (RJ-45) (AT-iBG910B)

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 a	and	IP	routing
RIPvI and v2			
IGMPv2			
IGMP	snooping		
IGMP	pro	xÿ	•

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 Four 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 µ-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 R'EN Caller ID Call transfer Call waiting Call hold Message waiting DTMF Relay

IP PBX

SIP proxy registrar SIP proxy locator

Management

AlliedView NMS Zero Touch Configurator TR-069 Telnet SSH Remote software upgrade Web GUI CLI SNMP v1, v2 and v3

Status LEDs

Power System xDSL LAN VoIP

Link/Activity Use/Ready/Ringing

Training/Link

32MB

8MB

Memory RAM Flash

Power Characteristics

Internal power supply Input 100 Max power consumption 25W

100-240V AC, 50-60Hz 25W

Environmental Specifications

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

Physical Characteristics

Dimension 5cm x 20cm x 37cm (H x D x W) (2" x 7.87" x 14.5")

EN 60950

Approvals and Certifications

CE Safety CSA 950/US UL 1950 Emission Immunity

FCC Part 15 Class B Part 68 EN55022 Class B EN55024

Ordering Information

AT-iBG910A-xx (990-001919-xx) I x annex A ADSL2+, 8 x 10/100TX, 4 x FXS, 2 x ISDN BRI

AT-iBG910B-xx (990-001920-xx)

I x annex B ADSL2+, 8 x IO/IOOTX, 4 x FXS, 2 x ISDN BRI

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

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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