Allied Telesis™

AT-iMG634W-R2

ADSL Multiservice Gateway with Analog VoIP Ports and IEEE 802.11bg Wireless Interface

AT-iMG634WA-R2
1 x Annex A ADSL2+, 4 x 10/100TX, 2 x FXS, PSTN lifeline, IEEE 802.11bg

AT-iMG634WB-R2
1 x Annex B ADSL2+, 4 x 10/100TX, 2 x FXS, IEEE 802.11bg

A More Powerful ADSL Gateway
The AT-iMG634W-R2 family of ADSL gateways provides an evolution to the iMG634W family, with enhanced performance.

The Multiservice Gateway
The iMG634W-R2 intelligent Multiservice Gateways provide multiple IP-based broadband services to the home over a high-speed, always-on broadband connection. The combined delivery of IP Triple Play services - voice, video and data - benefits both service providers and their customers.   Service providers can quickly deliver advanced services such as fast Internet, VoIP, IPTV and Video on Demand in a scalable way with complete remote management. End users benefit by having a unique device interconnecting all peripherals, computers, wireless devices, analog and VoIP telephones to a single broadband uplink.

Voice over IP
The iMG634W-R2 series offers up to 2 FXS ports, leveraging H.323, SIP and MGCP Voice over IP (VoIP) protocols, with interoperability established with major softswitch vendors. The iMG634W supports the connection of modems and faxes to voice interfaces for business applications in SoHo environments. VoIP QoS is assured through Type of Service bits (ToS), and IEEE 802.1p priority tagging. The addition of silence suppression and local generation of comfort noise results in excellent voice quality.

The AT-iMG634WA-R2 offers a backup lifeline POTS service in case of power failure or softswitch inaccessibility, the FXS port is physically switched to the PSTN connection.

IP Television
The iMG600 family is optimized for IP video streaming. The iMG 'snoops' IGMP packets in-transit 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 iMG600 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. The extensive support for per port rate-limiting in the iMG600 series 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 iMG600 series is designed to be easy to deploy and manage. With the AlliedView™-NMS software platform, the iMG600 series can be remotely provisioned and managed.

Key Features

- ADSL2+ WAN interface

- IEEE 802.11bg wireless interface

- H.323, SIP and MGCP VoIP protocol support

- Major SoftSwitch manufacturer compatibility

- Triple Play ready

- Support for analog and VoIP phones

- PSTN lifeline

- Stateful Inspection Firewall / NAT

- DMZ support

- Access Control List (ACL)

- Intrusion Detection System: DoS, port scanning and Web spoofing protection

- AlliedView-NMS support

- RoHS compliant

2002/95/EC
RoHS COMPLIANT

Specifications

Hardware

4 x 10/100TX (RJ-45)

2 x FXS (RJ-11)

1 x IEEE 802.11bg

1 Annex A ADSL2/2+ (RJ-11)
(AT-iMG634WA-R2)

1 Annex B ADSL2/2+ (RJ-45)
(AT-iMG634WB-R2)

Ethernet

Layer 2 wirespeed packet switching
Tag-based IEEE 802.1Q VLANs (16 max.)
IEEE 802.1Q tag insertion and stripping
Port mirroring of ingress/egress traffic
DHCP client, server and relay
1,000 MAC address FDB

WAN Protocols

PPPoE, PPPoA, IPoA
RFC 1483 routed and bridged
Virtual
Global IP address pool
DNS
Static and Dynamic IP address assignment

Routing and Multicast

PPP and IP
RIPv1 and v2
IGMPv2
IGMP

Security

NAT
Stateful Inspection Firewall
Dynamic port opening
Intrusion Detection and Blocking System
Access Control List
IPSec/VPN passthrough
PAP/CHAP authentication

QoS

IEEE 802.1p prioritization
Programmable ingress/egress rate limiting
Double QoS queue on each port
DSCP/ToS

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 REN
PSTN lifeline (AT-iMG634W-R2 EU model only)
Caller ID
Call transfer
Call waiting
Call hold
Message waiting
DTMF relay

Management

AlliedView NMS
Telnet
Remote software upgrade
Web GUI
CLI
SNMP v1, v2 and v3

Status LEDs

Power	
System	
ADSL	Training/Link
LANx4	Link/Activity
WLAN	Link/Activity
TEL1	Ready/Ringing/In Use
TEL2	Ready/Ringing/In Use

Memory

RAM:	32 MB
Flash:	8 MB

Power Characteristics

External power supply	
Input:	100-240V AC, 50-60 Hz
Output:	12vDC, 1.25A
Typ. power consumption:	13W

Environmental Specifications

Operating temperature	0°C to 45°C
Max operating humidity	90% RH (non-condensing)
Storage temperature	-25°C to 70°C
Max storage humidity	95% RH (non-condensing)

Physical Characteristics

Dimensions (W x D x H)	15.2cm x 4.5cm x 2.1cm
Weight	440 g

Approvals and Certifications

CE	EN 50385:2002
	EN 300 386 v1.3.2 (2003-05)
	EN 301 489-1 v1.6.1 (2005-09)
	EN 301 489-17 v1.2.1 (2002-08)
	EN 300 328 v1.7.1 (2006-05)
FCC	FCC part 68
	FCC part 15B
	FCC part 15C
K21	
UL	

Ordering Information

AT-iMG634WA-R2 (990-002384-xx)
1 x Annex A ADSL2+, 4 x 10/100TX, 2 x FXS,
IEEE 802.11bg

AT-iMG634WB-R2 (990-002385-xx)
1 x Annex B ADSL2+, 4 x 10/100TX, 2 x FXS,
IEEE 802.11bg

Where xx =	
	10 for U.S. power supply
	30 for U.K. power supply
	40 for Australian power supply
	50 for European power supply

Connecting The IP World

Allied Telesis