



AT-iMG624/AT-iMG634/AT-iMG634W

ADSL Multiservice Gateway with Analog VoIP Ports and Wireless IEEE 802.11b/g

AT-iMG624A

1 x Annex A ADSL2+, 4 x 10/100TX

AT-iMG624B

1 x Annex B ADSL2+, 4 x 10/100TX

AT-iMG634A

1 x Annex A ADSL2+, 4 x 10/100TX, 2 x FXS

AT-iMG634B

1 x Annex B ADSL2+, 4 x 10/100TX, 2 x FXS

AT-iMG634WA

1 x Annex A ADSL2+, 4 x 10/100TX,
802.11b/g, 2 x FXS, PSTN Lifeline*

AT-iMG634WB

1 x Annex B ADSL2+, 4 x 10/100TX,
802.11b/g, 2 x FXS, PSTN Lifeline*

*Available on European models only

The Multiservice Gateway

The iMG624 and iMG634 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, data and video - 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, analogue and VoIP telephones to a single broadband uplink.

Voice Over IP

The iMG634 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 iMG634 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 iMG634W offers a backup lifeline POTS service through an FXO port (European model only): 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. In addition, a Smart Card slot provides support for future enhancements as security certificates or dedicated provisioning ID.

The iMG634W expands data delivery options with the addition of a built-in IEEE 802.11b/g wireless interface. To provide data transmission security, the wireless interface supports industry standard security protocols such as WEP, TKIP, WPA, 802.1x and AES.

Management & Deployment

The iMG600 series is designed to be easy to deploy and manage. With the Zero Touch Configurator (ZTC) software platform, the iMG600 series can be remotely provisioned and

managed. ZTC is a distributed configuration system providing secure authentication and registration plus intelligent, automatic configuration of remote iMG units. Its XML-based 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+ WAN interface
- Wireless IEEE 802.11b/g (iMG634W only)
- H.323, SIP and MGCP VoIP protocol support
- Major softswitch manufacturer compatibility
- Triple Play ready
- Support for analog and VoIP phones
- PSTN lifeline (iMG634W European model only)
- Smart Card ready
- Stateful Inspection Firewall / NAT
- DMZ support
- Access Control List
- Intrusion Detection System: DoS, Port Scanning and Web Spoofing protection
- Zero Touch Configurator and TR-069 support
- RoHS Compliant



Specifications

Hardware

- 4 x 10/100TX (RJ-45)
- 2 x FXS (RJ-11)
(iMG634 and iMG634W only)
- 1 x IEEE 802.11b/g (omni-directional antenna)
(iMG634W only)
- 1 x PSTN lifeline
(iMG634W European model only)
- 1 Annex A ADSL2/2+ (RJ-11)
(iMG624A, iMG634A, iMG634WA)
- 1 Annex B ADSL2/2+ (RJ-45)
(iMG624B, iMG634B, iMG634WB)

Ethernet

- Layer 2 wire-speed 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
- RFC1483 routed and bridged
- Virtual Server
- Global IP address pool
- DNS proxy
- 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 & 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 (iMG634W EU model only)
- Caller ID
- Call transfer
- Call waiting
- Call hold
- Message waiting
- DTMF Relay

Management

- AlliedView NMS
- Zero Touch Configurator
- TR-069
- Telnet
- Remote Software Upgrade
- Web GUI
- CLI
- SNMP v1, v2 and v3

Status LEDs

- Power System
- ADSL Training/Link
- WLAN (iMG634W only) Link/Activity
- LAN 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: 100-240 VAC, 50-60 Hz
- Output: 12VDC, 1.5A
- Typ. power consumption: 13W

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

- Height 48 mm
- Depth 150 mm
- Width 200 mm
- Weight 440 gr

Approvals and Certifications

- CE
- UL
- Safety EN 60950
- CSA 950/US
- UL 1950
- FCC Part 68
- Emission FCC Part 15 Class B
EN55022 Class B
EN61000-3-2, EN61000-3-3
- Immunity EN55024

Ordering Information

- AT-iMG624A** (990-001005-xx)
1 x Annex A ADSL2+, 4 x 10/100TX
- AT-iMG624B** (990-001007-xx)
1 x Annex B ADSL2+, 4 x 10/100TX
- AT-iMG634A** (990-001008-xx)
1 x Annex A ADSL2+, 4 x 10/100TX, 2 x FXS
- AT-iMG634B** (990-001006-xx)
1 x Annex B ADSL2+, 4 x 10/100TX, 2 x FXS
- AT-iMG634WA** (990-000994-xx)
1 x Annex A ADSL2+, 4 x 10/100TX, 802.11b/g, 2 x FXS, PSTN Lifeline*
- AT-iMG634WB** (990-000813-xx)
1 x Annex B ADSL2+, 4 x 10/100TX, 802.11b/g, 2 x FXS, PSTN Lifeline*

*Available on European models only

- 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

Options

- AT-iMG005G** (990-001354-xx)
Battery Backup
- AT-RG009** (990-000530-00)
Battery Backup Cable

USA Headquarters | 19800 North Creek Parkway | Suite 200 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

www.alliedtelesis.com

© 2006 Allied Telesis Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners. 617-000200 Rev.A