AT-iMG664/AT-iMG664W

ADSL2+ Multiservice Gateway with Analog and Digital VoIP and Wireless IEEE 802.11b/g

AT-iMG664A
1 x Annex A ADSL2+, 4 x 10/100TX, 2 x FXS, 1 x ISDN BRI

AT-iMG664B
1 x Annex B ADSL2+, 4 x 10/100TX, 2 x FXS, 1 x ISDN BRI

AT-iMG664WA
1 x Annex A ADSL2+, 4 x 10/100TX, 802.11b/g, 2 x FXS, 1 x ISDN BRI

AT-iMG664WB
1 x Annex B ADSL2+, 4 x 10/100TX, 802.11b/g, 2 x FXS, 1 x ISDN BRI

The Multiservice Gateway

The iMG664 intelligent Multiservice Gateway provides 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 iMG664 series offers 2 FXS ports and 1 ISDN port, leveraging H.323, SIP and MGCP Voice over IP (VoIP) protocols, with interoperability established with major softswitch vendors. The iMG664 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.

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 iMG664W 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 (iMG664W only)

- H.323, SIP and MGCP VoIP protocol support

- Major softswitch manufacturer compatibility

- Triple Play ready

- Support for analog, ISDN and VoIP phones

- 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

2002/95/EC
RoHS COMPLIANT

Specifications

Hardware
4 x 10/100TX (RJ-45)
2 x FXS (RJ-11)
1 x ISDN LT-S BRI (RJ45)

1 x IEEE 802.11b/g (omni-directional antenna)
(iMG664W only)

1 Annex A ADSL2/2+ (RJ-11)
(AT-iMG664A/AT-iMG664WA)

1 Annex B ADSL2/2+ (RJ-45)
(AT-iMG664B/AT-iMG664WB)

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
Caller ID
Call transfer
Call waiting
Call hold
Message waiting
DTMF Relay

Status LEDs

Power	
System	
ADSL	Training/Link
WLAN (iMG664W only)	Link/Activity
LAN	Link/Activity
TEL1	Ready/Ringing/In Use
TEL2	Ready/Ringing/In Use
ISDN	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, 2A
Typ. power consumption: 13W

Environmental Specifications

Operating Temperature	0 ℃ to 40 ℃
Max Operating Humidity	80% RH (non-condensing)
Storage Temperature	-20 ℃ to 70 ℃
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	
Safety	EN 60950
Emission	EN55022 Class B
	EN61000-3-2, EN61000-3-3
Immunity	EN55024

Ordering Information

AT-iMG664A (990-001011-xx)
1 x Annex A ADSL2+, 4 x 10/100TX,
2 x FXS, 1 x ISDN BRI

AT-iMG664B (990-001012-xx)
1 x Annex B ADSL2+, 4 x 10/100TX,
2 x FXS, 1 x ISDN BRI

AT-iMG664WA (990-001016-xx)
1 x Annex A ADSL2+, 4 x 10/100TX, 802.11b/g,
2 x FXS, 1 x ISDN BRI

AT-iMG664WB
gray chassis (990-001776-xx)
black chassis (990-001018-xx)
1 x Annex B ADSL2+, 4 x 10/100TX, 802.11b/g,
2 x FXS, 1 x ISDN BRI

Where xx =   00 for no power cord
              30 for U.K. power cord
              50 for European power cord

Options
AT-iMG005G (990-001354-xx)
Battery Backup

AT-RG009 (990-000530-00)
Battery Backup Cable

Connecting The (IP) World

Allied Telesis