



## AT-iMG606BD

### Ethernet intelligent Multiservice Gateway

#### AT-iMG606BD

6 × 10/100TX LAN ports  
1 × 100BX, SC/UPC fiber WAN port

#### Applications

##### Capitalizing on Existing Infrastructure

The AT-iMG606BD offers a bi-directional optical interface over a single fiber allowing efficient use of fiber for new infrastructures and doubling of capacity for existing dual-fiber installations. The increase in density of fibers at aggregation points delivers economies of scale in cabinet space and cost of deployment. The simple termination of a single fiber at the customer premise with the AT-RG002 faceplate and associated splicing kit saves time in deployment of new fiber estates and upgrading existing ones to accept the feature benefits of the AT-iMG606BD.

##### Software Real-time Applications Optimization

##### Quality of Service

This is provided within the AT-iMG606BD through ISO Layer 2 and 3 prioritization techniques including priority tagging with IEEE 802.1p as well as Type of Service (ToS).

##### Optimization for IP Video Streaming

The AT-iMG606BD 'snoops' IGMP packets in-transit allowing simultaneous delivery of different multicast transmissions such as different movies or TV channels. This results in high quality, high-bandwidth multiple video streaming without impacting Internet browsing or IP telephony while delivering the fast channel change that users expect from video services. MPEG video service management and diagnosis is possible using troubleshooting techniques. Furthermore, video quality can be monitored using the unique MPEG stream monitoring tool.

#### Data Delivery and Security

##### Differentiated Bandwidth Internet Services

The AT-iMG606BD provides extensive support for per-port rate-limiting that enables service providers to deliver tiered data services catering for the wide spectrum of end-customer profiles.

##### Firewall Capability

The AT-iMG606BD has an integral Stateful Inspection Firewall with NAT, Denial of Service (DoS) and an Intrusion Detection System (IDS) with blocking for protecting end-customer networks.

#### Management

##### Easy to Deploy and Manage

Fiber-To-The-Home (FTTH) with the AT-iMG606BD has never been easier. For installers and builders, a complete fiber splicing kit with a passive faceplate for hiding the fiber termination is available to allow for easy installation, maintenance and replacement using Plug & Play optical connections. User intervention is limited to simply sliding-in the gateway in the already installed slot containing the terminated fiber.

##### Zero Touch Configuration with the ZTC

The AT-iMG606BD is designed to be easy to deploy and manage. With the Zero Touch Configurator (ZTC) software platform, the AT-iMG606BD can be provisioned and managed remotely. The Zero Touch Configurator is a distributed configuration system based on the industry's standard Lightweight Directory Access Protocol (LDAP) database architecture. This provides 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.

#### Key Features

- Up to 100Mbps bandwidth delivery
- Small footprint at customer site
- Innovative two-part case – easy to deploy
- Stateful Inspection Firewall / NAT for security of customer and provider
- Single bi-directional fiber presentation drives resource efficiencies and reduces deployment cost (CAPEX and OPEX savings)
- Zero Touch Configurator Software removes need for truck-roll deployment
- Service specific management and monitoring – ensures Quality of Service to customers



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## Specifications

### User's Ports

6 x 10/100TX (RJ45)

### WAN Ports

100BX single-fiber (BX, SC/UPC)

TX 1310 nm, RX 1550 nm

Range 15 Km

Power budget 17 dB

### Layer 2 Operation

Layer 2 wire-speed packet switching

IGMP v1/v2 multicast support

Tag-based IEEE 802.1Q VLANs (16 max.)

IEEE 802.1p prioritization

IEEE 802.1Q tag insertion and stripping

Programmable rate limiting ingress/egress (32,000 steps)

Port mirroring ingress/egress traffic

Double QoS queue on each port

Port speed selection 10, 100 or 10/100

1,000 MAC addresses

### Layer 3 Operation

NAT

PPPoE

Stateful Inspection Firewall

Intrusion detection and blocking system

IPSec/VPN passthrough

Virtual server

Global IP address pool

Dynamic port opening

DHCP client, server and relay

DNS proxy

PAP/CHAP authentication

Static and dynamic IP address assignment

RIPv1/v2

### Network Management

Zero Touch Configurator

Local console port

Telnet

Remote software upgrade

DHCP

Web GUI (optional)

### LED Status Indicators

Power

System

WAN

Link/Activity

LAN

Link/Activity

## Technical Specifications

### Power Characteristics

External power supply

Input 12VDC, 1.5A

Power consumption 6W (typical)

10W (max)

### Environmental Specifications

Operating temperature 0°C to 40°C

Storage temperature -20°C to 40°C

Operating humidity 5% to 80% RH

### Physical Characteristics

Dimensions 24cm x 15cm x 6cm

(W x D x H) (9.4" x 5.7" x 2.4")

Weight (Gateway Only) 0.9lb (0.4kg)

Weight (Gateway & Base) 1.4lbs (0.64kg)

### Protocols and Standards

IPv4 RFC 791

TCP, UDP RFC 1144

IGMP (v1/v2) RFC 1112, 2236

PPPoE RFC 2516

PAP RFC 1334

CHAP RFC 1994

NAT RFC 1631

DHCP RFC 2131

VLAN IEEE 802.1p/Q, IEEE 802.1d,

IEEE 802.2, IEEE 802.3x

v1,v2,v3

SNMP

RTP/RTCP

TFTP RFC 1350

Telnet RFC 318

ARP RFC 826

### Approvals

CE Marking

Safety UL60950-1,

CAN/CSA-C22.2 No. 60950-1-03,

EN60950-1, EN60825-1

Emission FCC Part 15 Class B

EN 55022 Class B

Immunity EN 55024

### Warranty

Two years

## Ordering Information

AT-iMG606BD-xx (990-001132-xx)

6 x 10/100TX LAN ports

1 x 100BX, SC/UPC fiber WAN port

1 x Console port

Include fiber outlet with locking mechanism

### Options

AT-iMG006G-10 (990-002154-10)

Battery backup

AT-RG008-00 (990-000396-00)

Battery backup cable

AT-RGCONSOLECABLE (990-011748-00)

Console cable

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

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