

# **AresGate 1000 WirelessLAN IP Router**

## **Product Specifications**

Version 2.0 Revision 1  
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ARESCOM AresGate™ 1000 is an IP router with multiple LAN interface support: IEEE 802.11b Wireless LAN, Ethernet & USB (option), and multiple WAN interface options: either Ethernet or 56K analog modem.

## 1.0 Software Specifications

### 1.1 Routing

- RIP1 & RIP2 and static routing
- Support DHCP Server and Client on all the Ethernet, Wireless LAN and USB interface – Automatic assignment and reception of IP Address, Mask, Default Gateway, and DNS servers address to workstation (RFC 2131, RFC 2132)

### 1.2 Bridging

- Transparent Bridging among Ethernet, Wireless LAN and USB
- Bridge Filters – MAC-address based
- Support up to 510 MAC learning addresses

### 1.3 WAN Protocol

- Classical IP (RFC 1577)
- PPPoE: PPP over Ethernet
- PPP (RFC 1661)

### 1.4 Internet Access Sharing

- NAT/PAT (RFC 1631) proxy supports unlimited multi-user sharing via Ethernet LAN
- NAT (Network Address Translation) supports PAT (Port Address Translation) for server hosting (i.e. Web, FTP, Mail, etc.), multimedia applications (i.e., NetMeeting, CuSeeMe, ICQ, etc.), and Internet gaming (i.e. Quake, Diablo, StarCraft, etc.).
- NAT supports Microsoft PPTP VPN
- Auto DNS (Domain Name Server)
- Support Public (registered) and Private (unregistered) IP addresses simultaneously with Static/NAT mixed mode

### 1.5 Security

- PAP (RFC 1334), CHAP (RFC 1994), and MS-CHAP user authentication
- Password control for Windows GUI, and Telnet port management
- IP packet filtering Firewall
- PPP username and password control
- WEP (wired equivalent privacy) and user password authentication for Wireless LAN

### 1.6 Network Management

- Web-based GUI
  - Wizard – Setup (LAN interface, WAN interface, PPPoE, DHCP, Password)
  - Status – Port link/activity status display, connect/disconnect, traffic counters, DHCP table, routing table and event log.
  - Advanced Management – Filtering tools, Port Mapping, Static/Dynamic routing, Firmware Upgrade (via FTP).
- Command Line User Interface: Telnet access

## 2.0 Network Interface Specifications

### 2.1 WAN Interfaces

- One Ethernet 10BaseT RJ-45 port (IEEE 802.3)
- 56K analog modem

### 2.2 Wired LAN Interface

- One Ethernet 10BaseT RJ-45 port (IEEE 802.3)
- One USB port (Universal Serial Bus Spec. v.1.1) (Optional)

### 2.3 Wireless LAN Interface

- IEEE 802.11b compliant
- Operating in the unlicensed 2.4GHz ISM band
- Operation Frequency/Channels
  - North America/FCC: 2.412~2.462 GHz (11 channels)
  - Japan TELEC: 2.412~2.472 GHz (14 channels)
- Modulation Technique: Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
- Media Access Protocol: CSMA/CA with ACK
- Dynamic Rate Shifting: 11, 5.5, 2 and 1Mbps

## 3.0 Hardware Specifications

### 3.1 LEDs

- One for POWER
- One for DIAG
- One for 56k modem: Link CD/Act
- One for Ethernet WAN: Link/Act
- One for Ethernet LAN: Link/Act
- One for Wireless LAN: Link/Act
- One for USB (option): Link/Act

### 3.2 Mechanical

- Dimensions: 9.5" (w) x 6.5" (d) x 1.4" (h)
- Weight: 13.5 oz.

### 3.3 Operating Environment

- Operating temperature range: 0°C to 40°C (32°F to 104°F)
- Operating humidity range: 0% to 95% non-condensing

### 3.4 Power (external power adapter)

- Input: 100 – 240 VAC, 47-63 Hz
- Output: 5VDC, 2A
- Power consumption: 7 watts nominal

### 3.5 Compliance / Regulatory

- EMI: FCC Part15 Class B & Part 15C, CE EN55022 Class B
- Immunity: CE EN50082
- Safety: EN60950