FEATURES

• Dual-core processor with hardware accelerated routing for exceptional performance
• ADSL/VDSL Pair Bonding
• Advanced Quality of Service for managing IPTV and any other critical data needs
• Best-in-class wireless performance, high-power wireless design
• HomePNA interface for video distribution throughout the home
• Intelligent service delivery platform
• Carrier-Quality TR-069, TR-098 and TR-104 Network Management
• Professional-Grade Firewall
• Low Total Cost of Ownership

PRODUCT OVERVIEW

The 5168N delivers best-in-class 802.11n MIMO wireless performance and HomePNA over coax for in-home network distribution of IP video.

The 5168N intelligent gateway is the optimum solution for today’s service provider. It enables superior IPTV and Internet service delivery via its flexible xDSL interfaces. The 5168N terminates single-pair or pair-bonded ADSL2+/ VDSL2 and automatically detects the configured profile. It can even receive a gigabit Ethernet handoff from an optical network terminal (ONT). The 5168N allows service providers to use one SKU to serve all areas of their delivery network.

ADSL/VDSL PAIR BONDING

The 5168N residential gateway features bonded ADSL2+/VDSL2 modem technology, allowing service providers to increase rate and reach with their existing broadband infrastructure.
GIGABIT SPEEDS
Enable Gigabit service offerings utilizing the integrated Gigabit Ethernet switch.

SUPERIOR WIRELESS PERFORMANCE
High-powered 802.11n 2x2 MIMO wireless technology virtually eliminates wireless “cold spots” in the home. Our intelligent gateways provide more than four times the maximum transmit power of competitive products that traditionally transmit at less than 100mW.

The 5168N gateway has superior transmit power and enhanced receiver sensitivity, in conjunction with an optimized antenna design, and boosts performance compared to typical 802.11n wireless designs. Better range throughout the home means higher customer satisfaction with wireless coverage.

STREAMLINED MANAGEMENT
The 5168N intelligent gateway drastically simplifies both gateway and application management; remote management is supported with any TR-069-compliant auto-configuration server, such as our industry-leading ECO Manage device management system.

ECO Manage gives providers a valuable insight into the customer’s network, enabling them to remotely configure, manage and troubleshoot deployed gateway devices, eliminating costly truck rolls and lengthy customer care calls. Additionally, IP-based services can be remotely managed using the web-based ECO Service Management tools. ECO Service Management can reduce operational expenses, shorten time-to-market for next-generation services, and increase customer satisfaction.

MAIN INTERFACES
- Bonded ADSL2+/VDSL2
- Gigabit Ethernet WAN
- HomePNA 3.1 coax port
- 4 x Gigabit Ethernet LAN ports
- 802.11n 2x2 MIMO Wi-Fi
- USB Host Port
### GENERAL SPECIFICATIONS

#### Broadband Network Interfaces
- Integrated Bonded ADSL2+/VDSL2 Modems (1 RJ-14)
- Gigabit Ethernet (1 RJ-45)
- Broadband interface auto detection feature

#### DSL Modem
- ADSL 1, ADSL 2, ADSL 2+
- VDSL2
  - T1.413 Issue 2, G.992.1, G.992.3, G.992.5, G.HS/G.994.1
- VDSL-DMT per G.993.2 standard
- Ethernet Bonding G.998.2
- TR-067- and TR-100-compliant
- ANSI and ETSI loops
- Annex A, L and M support
- Extended frames support
- Cabinet mode support

#### High-Powered Wireless Functionality
- IEEE 802.11n 2x2 2.4 GHz wireless access point, backwards compatible with 802.11b/g
- 10 power settings available through gateway user interface, up to 25 +/- 1dBm, for 802.11b, 802.11g, and 802.11n
- Settings also configurable via CWMP
- WEP64, WEP128, WPA, WPA2
- Automatic channel selection with interference detection
- Multiple SSID support
- Wi-Fi Multimedia (WMM) and Multimedia Power Save (WMM-PS)
- MAC-based filtering
- Wi-Fi Protected Setup (WPS)

#### Local Network Interfaces
- Gigabit (10/100/1000 Mbps) Ethernet (4 ports RJ-45)
- Wireless 802.11b/g/n access point
- HomePNA 3.1 interface over coax
- 1 x USB 2.0 Host interface (2 option)

### Software Tools and Diagnostics
- Zero-touch subscriber activation including Captive Portal
- Simple Web-based user interface for easy configuration and diagnostics
- Quick summary page with shortcuts to most commonly used features
- Standard and advanced DSL Diagnostics provided as TR-098 vendor extensions

### Network Protocol Support
- ATM UNI, UBR, VBRnrt, VBRrt, CBR
- IPv4, IPv6 6RD, TCP, UDP, ARP, ICMP
- DHCP client/server, DNS client/server, HTTP client/server
- Single IP and multi-IP support
- PPPoE, PPPoA, PAP, CHAP, RFC 2684/1483 Ethernet
- IGMP Proxy and Snooping

### QOS
- Diffserv
- 802.1p/q
- Traffic shaping and policing
- Traffic remarking and passthrough
- Device generated traffic marking
- DHCP, NTP, TR-69, DNS

### Diagnostics and Management Tools
- Remote management and provisioning via SSL connection from ECO Manage or other TR-069-compliant ACS
- Supports TR-069, TR-098, and TR-104
- Integrated gateway-based diagnostics automatically intervene during error conditions, such as Missing Filter Detection, intercept subscriber Web requests, and provide self-guided resolutions
- Web-based remote gateway technician view and remote management
- ICMP Ping, Traceroute
- Multicolor indicator lights monitor the connection and assist with troubleshooting
GENERAL SPECIFICATIONS

Security

Integrated firewall includes stateful packet inspection (Layer 4) and local IP spoofing verification

Supports stealth mode operation

Unique signed security certificate manufactured into each gateway for TR-069 management authentication

NAT/PAT Support

Standard NAT/PAT between LAN and WAN

Automated NAT pass-through for LAN client-initiated VPN tunnels (IPSec, PPTP, L2TP), SIP, H.323, RTP

Easy-to-configure NAT pass-through (pinholes) for common applications (games, servers, etc.)

DMZplus for automatic WAN IP assignment to a local computer

Supports most popular ALGs: HTTP, FTP, H.323, IPSEC-IKE/ ESP, PPTP, RTP, RTSP, and SIP

Software Upgrade

Secure TR-069 software updates procedure via ECO Manage

Standard Hardware Features

TR-068-compliant industrial design and LED indicators

Vertical placement via provided stand or horizontal desk placement

Wall mount capable (with optional bracket)

GENERAL SPECIFICATIONS

Physical Specifications

With stand: 3.1” x 9.6” x 9.7” (7.8 cm x 24.3 cm x 24.5 cm)

Without stand: 1.6” x 8.7” x 8.9” (4.0 cm x 22.1 cm x 24.6 cm)

1.6 lbs (0.70 kg)

Power Supply

External PSU: 12V, 3A

2-prong ungrounded non-polarized AC plug

Memory

Up to 128 MB Flash (64 MB standard)

Up to 256 MB RAM (128 MB standard)

Operating Environment

Temperature: 32° to 104° F (0° to 40° C)

Humidity: 5% to 95%, non-condensing

Altitude: -197’ – 6,000’ MSL

CUSTOMER CARE

Contact Customer Care for product information and sales:

• United States: 866-36-ARRIS
• International: +1-678-473-5656