

UNRIVALLED PERFORMANCE FOR ALL NEXT-GENERATION SERVICES



FEATURES

- Best-in-class 4x4 5 GHz 802.11ac Wi-Fi for video, voice and data delivery
- Dual-core processor with hardware-accelerated routing for exceptional performance
- ADSL2+/VDSL2 Pair Bonding
- Advanced Quality of Service for Managing Voice, IPTV and Data Traffic
- HomePNA interface for video distribution throughout the home
- Intelligent service delivery platform
- Carrier-Quality TR-069, TR-098 and TR-104
- Network Management
- Optional Li-ion Battery for Service Assurance
- Low Total Cost of Ownership

PRODUCT OVERVIEW

Based on cutting-edge 4x4 MU-MIMO Wi-Fi technology, the 5268AC gateway is the optimum solution for multi-service (voice, video and data) delivery, offering service providers a single, unified platform to serve all aspects of their delivery network.

MAIN INTERFACES

- Bonded ADSL2+/VDSL2
- Gigabit Ethernet WAN
- HomePNA 3.1 coax port
- 4 x Gigabit Ethernet LAN ports
- 5 GHz 802.11ac 4x4 MIMO Wi-Fi
- 2.4 GHz 802.11n 2x2 MIMO Wi-Fi
- 2 x FXS (VoIP) Lines
- USB Host Port



SUPERIOR WIRELESS PERFORMANCE

Maximum performance 4x4 5 GHz 802.11ac

Engineered for maximum performance, the 5268AC integrated 4x4 5 GHz 802.11ac wireless access point allows service providers to securely deliver high-quality HD video and data to any location in a subscriber's home. Using the most up-to-date wireless standard (802.11ac), residential customers receive traditional "wired" levels of service and quality, while service providers enjoy the benefits of shortened installation times and more flexibility in how they deploy IPTV and OTT services. Put simply, it enables the fastest network speeds possible, while future-proofing service provider investment.

Eliminate cold spots

ARRIS virtually eliminates wireless "cold spots" around the home using high-powered 802.11ac 4x4 MIMO wireless technology. This guarantees superior wireless coverage to every device around the home, and ensures subscribers can enjoy seamless connectivity in every room at the maximum possible speed.

In the 2.4 GHz band, the gateway uses 802.11n 2x2 MIMO technology at over four times the transmit power of competitive 2.4 GHz products that traditionally transmit at less than 100 mW. This means greater flexibility and optimal performance regardless of the wireless technology.

Increase coverage

Across every Wi-Fi band, the 5268AC gateway has excellent receiver sensitivity and optimized antenna designs that boost performance when compared to typical wireless designs. Better range throughout the local network area means higher customer satisfaction with extended wireless coverage and up to 33% more capacity. The additional capacity enables subscribers to consume more video and ultimately have a better user experience.

FAST, SECURE, RELIABLE

Recognizing the need for extremely fast, reliable and high-performance local network connectivity, the 5268AC includes a variety of wired and wireless connection options. In addition to high-power 2.4 GHz 802.11n, the gateway also includes a concurrent, state-of-the-art 5 GHz 4x4 802.11ac access point. This enables service providers to deliver reliable wireless video services and data at the highest possible speeds.

FLEXIBLE CONNECTIVITY

For providers who prefer wired connectivity, the 5268AC includes both Gigabit Ethernet as well as HomePNA over coax for "no new wiring" installation. Optional two-line voice services are provided via integrated VoIP.

The 5268AC residential gateway also features bonded ADSL2+/VDSL2 modem technology allowing service providers to increase rate and reach with their existing broadband infrastructure.

NO-FUSS MANAGEMENT

Finally, to ensure continuous delivery of services, the 5268AC supports an optional internal Li-ion battery pack and is fully manageable utilizing the industry-standard TR-069 management protocol. This enables service providers to easily inspect network configuration and rapidly troubleshoot connectivity and service problems.

ADSL/VDSL PAIR BONDING

The 5268AC gateway simplifies deployment for service providers; for DSL broadband connectivity, it terminates both single-pair and bonded copper connections and automatically detects the appropriate profile. Its highly optimized xDSL interface supports a wide variety of xDSL profiles from ADSL2+ to bonded, high-speed VDSL2. Providers with fiber infrastructure can connect the output of an Optical Network Terminal (ONT) directly to the unit's dedicated, Gigabit Ethernet broadband port.

GIGABIT SPEEDS

The 5268AC's integrated Gigabit Ethernet switch and dedicated Gigabit Ethernet WAN port enables service providers to deliver next-generation services such as interactive payTV and video on-demand. The dual-core CPU and hardware accelerated routing translates into exceptional performance for every application, enhanced by quality of service management for voice, IPTV and data.

INTEGRATED VOICE OVER IP

The 5268AC provides built-in VoIP capabilities to support today's diverse voice needs. Additional VoIP capabilities include a full SIP ALG and back-to-back IP user agent (proxy) to support additional ATA adapters.

An optional, replaceable integrated Li-ion battery pack is available to ensure continuity of video services during a power outage.

STREAMLINED MANAGEMENT

The 5268AC 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.

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

5 GHz Wireless LAN

IEEE 802.11ac 4x4 5 GHz wireless access point

4x4 MIMO (up to 1.7 Gbps phy rate)

4 Spatial Streams

Implicit/Explicit Dynamic Digital Beamforming

Low-Density Parity Check (LDPC)

Space Time Block Coding (STBC)

Wi-Fi Protected Setup (WPS)

2.4 GHz Wireless LAN

IEEE 802.11n 2x2 2.4 GHz wireless access point, backwards compatible with 802.11b/g

WEP64, WEP128, WPA, WPA2

Automatic channel selection with interference detection

Wi-Fi Protected Setup (WPS) in conjunction with 5 GHz wireless video interface

GENERAL SPECIFICATIONS

Local Network Interfaces

Gigabit (10/100/1000 Mbps) Ethernet (4 ports RJ-45)

2.4 GHz Wireless 802.11b/g/n access point

5 GHz Wireless 802.11ac access point

HomePNA 3.1 interface over coax, utilizing Sigma CG3210 chipset

1 x USB 2.0 Host interface

VoIP Functionality

Two (2) voice lines via RJ-14 port

SIP user agent interoperability, including Alcatel-Lucent IMS

Audio codecs: G.711 (a-law and u-law) and G.729, software upgradeable to support G.726

Software upgradeable to support back-to-back SIP user agent (Proxy function)

Echo Cancellation

T.38 Fax Relay capable

Advanced statistics gathering and reporting support

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

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

GENERAL SPECIFICATIONS

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

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

GENERAL SPECIFICATIONS

Software Upgrade

Secure TR-069 software updates procedure via ECO Manage

Battery

Replaceable, lithium-ion, single piece construction, four-cell

Physical Specifications

10.41" x 6.97" x 2.56"

1.9 lbs (without battery), 2.7 lbs (with battery)

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