NVG468MQ Ethernet Voice Gateway

802.11ac Wi-Fi and MoCA®2.0

PRODUCT OVERVIEW

The ARRIS NVG468MQ Triple Play (Voice, Video and Data) Residential Gateway is designed to deliver robust video, high-speed data and primary line telephony, all delivered over a broadband network. This full-featured Gateway provides a cost-effective way for Service Providers to deploy broadband for use on FTTH (GPON, EPON), Gfast, LTE access networks.

The NVG468MQ Gateway provides a MoCA 2.0 LAN interface to connect with Set-tops and other MoCA compatible devices at speeds up to 600Mbps.
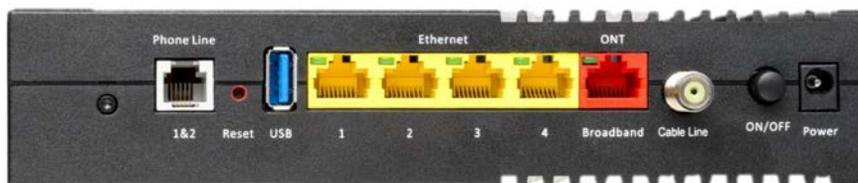
Providing Quality of Service (QoS) features, security firewall, and extensive remote management features, the NVG468MQ Gateway enables reliable, single-platform delivery of Voice-over-IP (VoIP), data, and streaming broadcast-quality video over the broadband network.

Key features:

- Simultaneous use of phone, video, and high-speed data

- IPTV video

- Four Gigabit Ethernet ports for high-speed home networking

- Concurrent Wi-Fi support for 802.11ac on 5 GHz and 802.11 b/g/n on 2.4 GHz

- Primary line VoIP telephone service

- Proven, robust ARRIS 9x software platform

The NVG468MQ Gateway delivers reliable wireless video in the home over dual-band concurrent Wi-Fi with 802.11ac Multiple-Input and Multiple-Output (MIMO) technology, eliminating the need for wired connections to the set-top and enabling users to easily network all of their Wi-Fi devices. Its four 10/100/1000 Ethernet ports give subscribers the option of setting up a home network to share a printer and data, music, and video files. Thus, the NVG468MQ Gateway enables users to maximize the high-bandwidth potential of their home or business network.

Service Assurance

The advanced features of the NVG468MQ Gateway help Service Providers improve efficiency and reduce costs. Support for 802.1x WAN supplicant simplifies CPE authentication to the Service Provider network and eliminates the subscriber need to manually enter their PPP credentials. The ARRIS 9x CPE Software is proven, scalable and forward looking, with the ability to support an upgrade path to more advanced features such as OSGi and DLNA. And, because ARRIS designs its Gateways to be remotely manageable via industry standard TR-069/TR-098, the NVG468MQ Gateway is interoperable with any ACS solution that follows the Broadband Forum's TR-069/TR-098 specification.

SPECIFICATIONS

Physical

Dimensions	206mm High x 173mm Deep x 40mm Wide 8.1in. High x 6.8in. Deep x 1.6in. Wide
Weight	0.63 kg, 1.39 lbs
Power Supply Rating	30W

Interfaces

WAN	Single 10/100/1000 Ethernet (RJ-45) AP-TLS, EAP-TTLS, EAP-SIM and (optional) 802.1x
LAN	Concurrent Wi-Fi support for 802.11b/g/n and 802.11ac Four-port 10/100/1000 Ethernet switch, RJ-45 USB 3.0 network interface Single-port, dual line voice FXS, RJ-14 MoCA 2.0 Profile B

Wi-Fi Features

Concurrent Wi-Fi	802.11 b/g/n and 802.11ac
Wi-Fi Characteristics	2.4 GHz 3x3 support, 5 GHz 4x4 support, 5 GHz UNII bands (5.15-5.35 GHz, 5.470-5.725 GHz and 5.725 –5.850 GHz bands) 20MHz, 40MHz, 80MHz supported
Wi-Fi Features	Multiple BSSID (unique authentication per SSID) Wi-Fi Protected Setup (WPS) Wi-Fi Multimedia (WMM), WMM-PS (power save) Transmit power control
Wi-Fi Security	WEP (64-bit, 128-bit, 256-bit) encryption WPA, WPA-PSK, 802.11i/WPA2, WPA2-PSK, EAP-TTLS MAC address filtering

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Embedded Firmware, Encoding and Access Protocols

IP Addressing and Routing	2.4GHz and 5GHz
Traffic Management and QoS (Quality of Service)	Network Address Port Translation (NAPT) Application Level Gateway (ALG) support IP maps (pinholes) DiffservQoSwith Weighted Fair Queuing IGMPv2, IGMPv3 with Fast Leave IEEE 802.1P/Q VLANs DSCP setting for SIP/RTP Speed Test Deep Packet Inspection (DPI)
Security	Stateful packet inspection firewall Virtual DMZ/IP pass-through Denial of service (DoS) protection VPN pass-through (PPTP, L2TP, IPSec)
Device Management	Password protected access, statistics, and log reporting
Remote Management	TR-069/TR-098, TR-104, TR-111, WebUI, CLI (Telnet), SSH
Local Management	TR-064, UPnP, WebUI, CLI (Telnet), captive portal
Utilities	Ping, traceroute, reverse DNS, NTP, diagnostics

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Voice Features

General Voice Features	SIP v2 call, SIPv2 call control DNS SRV, A records re-registration with primary SIP proxy server Geo-Redundancy—DNS SRV, A records Flexible dial plan support Hook flash event signaling RTP audio transport RFC2833 RTP payload, SIP INFO and InBand DTMF mode
Voice Audio Codecs	G.711 (a-law and u-law), G.729a and G.726 (16, 24, 32, 40 kbps) AMR (narrowband) Adaptive jitter buffer PLC—(G.711 Appendix I and Frame repeat) VAD (voice activity detection) with silence suppression and comfort noise generation G.168 network echo cancellation G.167 acoustic echo cancellation
FAX Relay Protocols Compliance	T.38 pass-through and over IP Fax/modem detection control, T.38 (IP) compliant Group 3 and SG3 fallback to Transport T.30, V.34 fax and modem bypass (automatic fallback to G.711) support
CLASS Calling Features	Call Waiting; Call Hold; Call Resume; Call Forward Unconditional; Call Forward on Busy; Caller ID; 3-Way Conference; Call Consultant; Call Transfer and network-initiated class services—MWI messaging, VMWI via FSK

SPECIFICATIONS

Regulatory Compliance

General	K.21 Basic
Europe	93/68/EEC (CE Marking Directive) 2006/95/EC (Low Voltage Directive) 2004/108/EC (EMC Directive) 1999/5/EC (R & PTE Directive) EN60950-1 (Safety) EN55022 (Emissions) EN55024 (Immunity) EN300328 (Electromagnetic compatibility and Radio spectrum Matters, 2.4 GHz) EN300386 (Electromagnetic compatibility and Radio spectrum Matters, Telecommunication Network Equipment, EMC) EN301489-1 (Electromagnetic compatibility and Radio spectrum Matters, EMC, Part 1) EN301489-17 (Electromagnetic compatibility and Radio spectrum Matters, EMC, Part 17) EN301893 (Broadband Radio Access Networks, 5 GHz)
North America	UL 60950, CUL, CSA FCC Part 15 Class B Subparts B, C and E, ICES-003 CS-03 CEC compliant

Environmental Specifications

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	–40°C to 60°C (–40°F to 140°F)

Physical Specifications

Unit Dimensions	206mm H x 173mm D x 40mm W 8.1in. H x 6.8in. D x 1.6in. W
Unit Weight (all options)	0.62 kg (1.37 lbs)

CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
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