

ALLNET Point-to-multipoint 2-wire G.now 16-port DSLAM/main telephony line unit ALL- G.now109M-2wire-16

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ALL-G.now109M-2wire-16

G.now / G.hn 2-wire DSLAM – Up to 2 Gbps over existing telephone cabling

The **ALL-G.now109M-2wire-16** is the central master unit of the ALLNET G.now / G.hn 2-wire high-speed solution for using existing telephone lines in multi-party houses, hotels, residential complexes and office buildings.

With modern **G.hn technology**, the system enables data transmission with a physical rate of up to 2 Gbps and a data throughput of up to 1.7 Gbps - significantly more powerful than classic ADSL or VDSL solutions.

Ideal for existing buildings in which fibre optic cabling (FTTH) is complex or cost-intensive.

Use existing telephone lines as a high-speed network

The solution transmits gigabit data via:

- 2-core extension lines (parallel line / twisted pair)
- Existing PSTN installations (POTS & ISDN)
- Coexistence with ADSL/VDSL in the same MDF

This allows buildings to be quickly and cost-effectively equipped with high-speed Internet - without new cabling.

System architecture

Centre (MDF / technical room):

- ALL-G.now109M-2wire-16 (Master / DSLAM)

Subscriber (room / flat):

- ALL-G.now-109SP

Up to **16 subscriber lines directly per device.**

By cascading up to five (5) ALL-G.now109M-2wire-16 devices, **up to 80 residential units/clients** can be supplied.

Performance features

Gigabit performance

- G.hn SISO & transmission
- Physical rate up to 2 Gbps
- Real data throughput up to 1.7 Gbps
- 10G/1G SFP+ uplink port for backbone connection
- 2x Gigabit Ethernet ports

Coexistence with telephony

- Supports PSTN (POTS & ISDN)
- Does not support telephone or fax services
- Operation parallel to ADSL/VDSL possible

Ideal for MDU/MTU structures

- Hotels
- Residential homes
- Existing residential complexes
- Existing buildings

- Listed buildings

Professional network equipment

Interfaces

- 16x RJ11 G.hn ports
- 1x RJ21 (for 16 lines)
- 2x 10/100/1000M Ethernet
- 1x 10G/1G SFP+ uplink
- 1x RJ45 console
- Clock Sync (SYN_IN / SYN_OUT) for cascading

Layer-2 / Layer-3 functions

- VLAN
- QoS
- ACL
- SSH
- DoS Protection
- MAC Management
- Storm Suppression
- IGMP
- IPv4 / IPv6 support

Compact & robust design

- 19"-rack height (1U height)
- Compact dimensions: 340 x 44 x 200 mm
- Temperature range: -10 °C to +50 °C

- Noise development = 40 dB @ 25°C
- Air-cooled system
- External power supply unit

Ideal for small MDFs and technical rooms.

High operational reliability

- CPU traffic protection & prioritisation
- Bandwidth control
- Protection against illegal traffic & attacks
- Temperature monitoring
- Anti-theft design

Typical application

In older buildings without structured network cabling, the ALL-G.now109M-2wire-16 is installed in the MDF.

Each residential unit is connected to a G.now client (e.g. ALL-G.now-109SP or HA3515-DG) via the existing telephone extension line and receives:

- High-speed Internet
- Gigabit LAN
- Optional Wi-Fi 6 (with HA3515-DG)
- Parallel analogue telephony

Your advantages at a glance

- Up to 2 Gbps via existing 2-wire cable
- No new cabling necessary
- Parallel operation with ADSL/VDSL possible
- Scalable to up to 48 residential units
- 10G uplink for backbone connection
- Ideal for existing buildings

Technical Specifications

Main Telephone Line Unit	ALL-GHN109M-2WIRE-16
Interface	2* 10/100/1000M Copper Ports; 1* RJ21 Interface, Support up to 16 telephone ports; 16* RJ11 G.hn Ports. 1* Uplink 10G/1G SFP+ Port
Reset button	Build-in reset button
LED	ALM LINE (1-16) SYS GE1/GE2 LED 10G LED
SYNC interface	Two SMA clock synchronisation interfaces, SYN_OUT and SYN_IN, which are used for synchronising the clocks of cascaded switches. Max. 5pcs of ALL-G.now109M-2wire-16 could be connected = 80 rooms
Console	1*RJ45 Serial Port
Anti-theft design	Anti-theft hole
Working Temperature	-10°C to 50°C (14°F to 122°F)
Operating Humidity	10% to 90%
Storage Temperature	-40°C to 70°C? (-40°F to 158°F)
Storage Humidity	5% to 95%
Working Altitude	2000 m
Temperature control	Supported
Heat dissipation	Air Cooling
Noise	40dB@25°C, Up to 42dB
Power supply	External adapter
Dimensions (W x D x H)	340 mm * 44 mm * 200 mm (13.39 in. * 1.73 in. * 7.84 in.)
Certification	VCCI & JATE
Software features	
Layer-2 forwarding	G.hn, VLAN, MAC, Storm Suppression, LLDP, Mirror
Layer-3 forwarding	ARP, IPv4, IPv6
Security	ACL, QoS, SSH, DoS Protection
Application Protocol Features	DHCP Client, TFTP, FTP, NTP, Web



Part No.: 237437
Vendor Part No.: ALL-G.now109M-2wire-16

IPv6 Application Protocol	DHCP Client
Maximum Number of Supported Lines	Up to five main telephone line units can be cascaded to connect with 80 child telephone line units.

Accessories

Part No.	Name
253100	ALLNET point-to-multipoint 2-wire G.now CPE, 2x GbE ports with PoE IEEE802.3bt 90W per port ALL-G.now-109SP