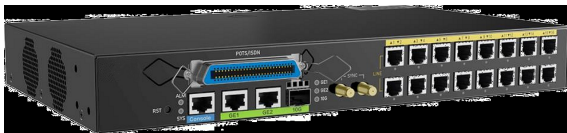


## ALLNET Point-to-multipoint 2-wire G.now 16-port DSLAM/main telephony line unit ALL-G.now109M-2wire-16

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### EAN CODE



### 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
<b>Software features</b>	
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