



NHG-300

2Giga LAN over 1Gbps G.now phone wire modem

The NHG-300 is a Utilizing TDD (Time Division Duplexing) architecture and an expanded 100 MHz OFDM spectrum, the NHG-300 G.now modem leverages G.hn technology to revolutionize wireline broadband access as a superior upgrade to VDSL2. Delivering unmatched speeds of up to 1 Gbit/s over existing copper wiring, far surpassing the 100 Mbps limit of legacy VDSL systems, G.now is positioned to lead the 'last mile' of broadband services.

As a more cost-effective and agile alternative to FTTH, G.now allows telcos to provide high-performance access at competitive prices while maximizing their existing copper infrastructure. As a pioneer of the world's first G.now solution, Netsys reinforces its commitment to the evolution of broadband, supporting future-proof, bandwidth-intensive applications such as UHD 4K Streaming.

Features

- Supports dual Giga LAN over phone wire
- Support MTU up to 2k bytes.
- Advanced FEC (Forward Error Correction) mechanism
- Automatic retransmission to ensure zero packet loss
- Advanced NDIM technology for interference mitigation in MDUs with high density of users
- Built-in LED indicators for link quality verification.
- Leverages SISO to achieve high-speed throughput of up to 1 Gbps
- Automatic mitigation of Near-End Crosstalk (NEXT) between copper wires in a bundle.
- Supports line port distances of up to 600 meters over single pair phone wire.
- Supports IGMP (IPv4) and MLD (IPv6) Snooping for optimized IPTV and video traffic management.
- Built in splitter for the phone port to allow simultaneous voice and high-speed data.
- Built-in surge protector for the line port to ensure long-term reliable.

Specifications

Physical Interface	2 x RJ-45 connector 1 x RJ-11 connector for G.now line port 1 x RJ-11 connector for splitter port
Power input	12VDC
G.hn Modulation Working frequency	OFDM 5Mhz~200Mhz
Max. Data Rate	1Gbps
Max. distance	600m (1968ft)
Dimensions	130 x 94.5 x 27 mm (5.12" x 3.72" x 1.06")

Standards	IEEE802.3 / u / ab ITU-T G.9960 / 9961 ITU-T G.9962 / 9964
Indicators	LAN: Act/Link, Power G.now Quality: High/Middle/Low, Security
Power Consumption	4 watts
Certification	CE, FCC, RoHS Compliant
Temperature	0 ~50°C(Operating), -20 ~70°C(Storage)
Humidity	10 - 90% non-condensing

