



# NHG-230PSE

1Gbps G.now phone wire over dual Giga LAN with 802.3bt POE adapter

The NHG-230PSE is a high-performance G.now Wave-2 subscriber adapter engineered to deliver throughput exceeding 1.7 Gbps over existing copper infrastructure. Designed for seamless coexistence with ADSL, VDSL, and G.fast services, it allows for high-speed upgrades without disrupting legacy systems. Equipped with dual Gigabit LAN ports and IEEE 802.3bt PoE++ support, it provides a robust dual 90W power budget for high-draw devices. This solution is optimized for FTTX/MDU/MTU network access infrastructure, connecting to a G.now IP DSLAM to enable rapid deployment of UHD 4K Video streaming without the need for new cabling. The integrated splitter and dual RJ-11 ports ensure simultaneous high-speed data and analog voice service on a single pair.

## Features

- Supports dual Giga LAN with PSE over phone wire
- Built-in IEEE 802.3bt support provides up to 90W for high-draw PD devices.
- 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 1.7 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 IEEE 802.3bt (Type 3 & 4) with End-span and Mid-span configurations for maximum device compatibility.
- 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 reliability.

## Specifications

<b>Physical Interface</b>	2 x RJ-45 connectors 1 x RJ-11 connector for G.now line port 1 x RJ-11 connector for splitter port
<b>Power injector</b>	up to 90W / per LAN port
<b>G.hn Modulation</b>	OFDM
<b>Working frequency</b>	5Mhz~200Mhz
<b>Max. Data Rate</b>	1.7Gbps
<b>Max. distance</b>	600m (1968ft)
<b>Certification</b>	CE, FCC, RoHS Compliant

<b>Standards</b>	IEEE802.3 / u / ab / bt ITU-T G.9960 / 9961 ITU-T G.9962 / 9964
<b>Indicators</b>	LAN: Act / Link, POE Link, Power G.now Quality: High / Middle / Low, Security
<b>Power Consumption</b>	6 watt (without Power injector loading)
<b>Dimensions</b>	137 x 100 x 27 mm (5.39" x 3.94" x 1.06")
<b>Temperature</b>	0°C~50°C(Operating), -20°C~70°C(Storage)
<b>Humidity</b>	10% - 90% non-condensing

