

General Description



NH-310H

The Netsys NH-310H is a HomePNA3.1 Ethernet over coaxial cable master unit. Designed to connect with [NH-310S](#) HPNA3.1 endpoint unit, to deliver Triple Play services using: 10/100Mbps Ethernet connections and coaxial cable.

Normally a wired network that simply transfers small files and shared applications would be used, but triple play services require large multimedia files such as music, video, photo and Voice over IP to be transferred. The NH-310H is designed to be a cost effective MDU and MTU solution, with plug & play to eliminate the pain in modification and high infrastructure cost. With the data transmission rates of up to 200Mbps and and up to -145dBm/Hz noise floor, it meets the growing demand for the delivery of high speed multimedia services. Importantly for MDU and MTU applications it allows high speed network connections to and from locations in buildings, apartments, hotels, resorts, sports centres etc.

**HomePNA
3.0 / 3.1 Spec.**

**Speed up to
200Mbps**

**Maximum Distance
up to 1220m(4K ft)**

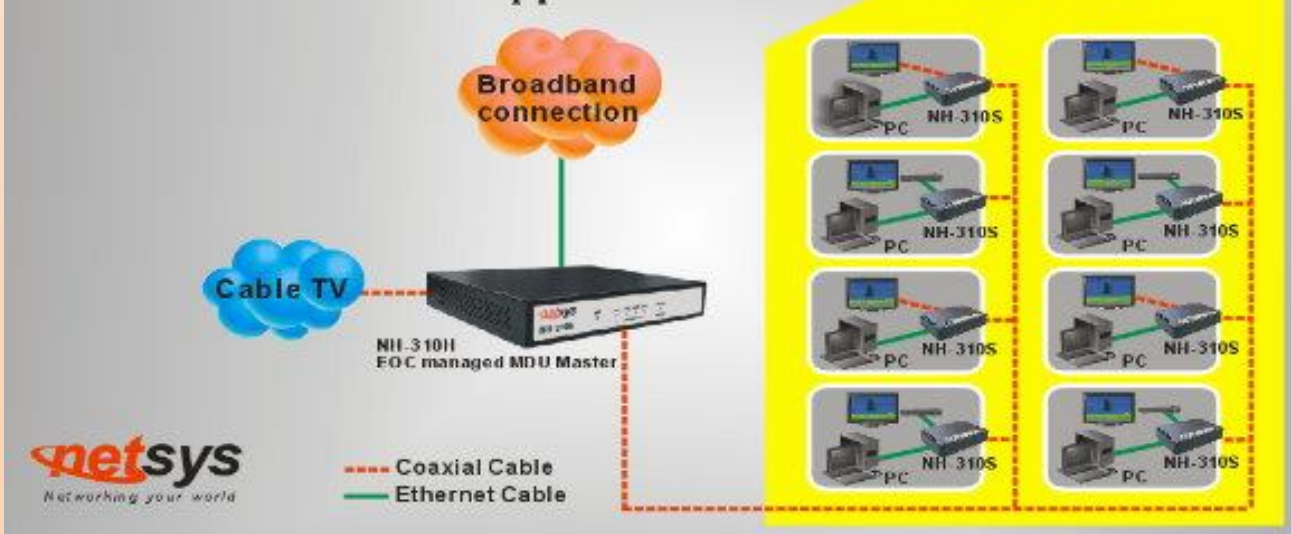
**MDU and MTU
applications**

Key Features & Benefits

- Compliant with HomePNA3.1/HomePNA3.0 over Coaxial cable (HCNA) specifications (ITU-T G.9954)
- Compliant with IEEE802.3 10Base-T and IEEE802.3u 100Base-Tx standards
- Compliant with IEEE802.3x flow control standard
- Provides 4 x 10/100M auto-negotiation RJ-45 Ethernet ports with auto MDI/MDIX
- Provides 2 x F-type female coax connectors for HCNA and TV
- Support transmission speed up to 200Mbps over coaxial cable and -145dBm/Hz noise floor
- Support Web Management (HTTP), Telnet for Remote Management
- Support HPNA Master/Endpoints driver upgrade
- Support Monitor all Endpoints (Clients) status of Version, SNR, Rate, RX Power, Frequency, PER (Packet Error Rate), and Packet Counter
- Support Endpoint (Client) Rate Control and Port Enable/Disable
- Support HTTP and TFTP Protocol for firmware upgrade
- Support point to multipoint application
- Support VLAN function for each Endpoint (Client) isolation
- Support auto-speed from 4Mbps up to 200Mbps
- Support up to 63 Endpoints (Clients)
- Guaranteed QoS based on HomePNA3.1 parameterised QoS

75 Ohm Coaxial Cable

HPNA3.1 Ethernet over Coaxial Cable MDU Application





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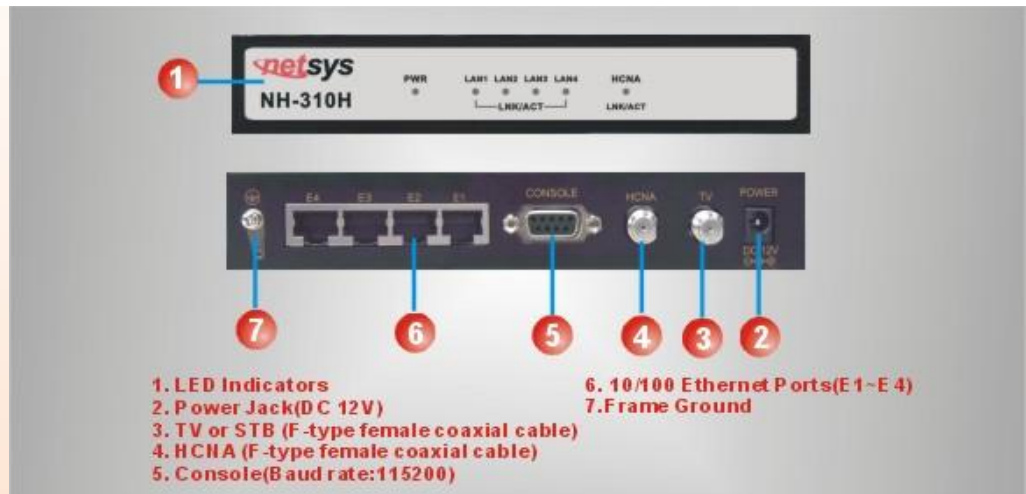
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ACCESS TO THE BUILDING: FTTB

ACCESS IN THE BUILDING: HPNA 3.1

Media: coax

Max number of units: 63 per HPNA band



Product Specifications

Standard:	IEEE802.3 standard IEEE802.3u standard Compliant ITU-T G.9954 standard
Interfaces:	4 x RJ-45 10/100Mbps Ethernet port 1 x F-type female coax connector for HCNA 1 x F-type female coax connector for STB/TV 1 x 12Vdc/1A power jack 1 x DB9 Console port
Max. Bandwidth:	Up to 200Mbps
Networking Microprocessor:	32 bit MIP 4KC CPU
Memory Size:	32M bytes
Max. Noise Floor:	-145dBm/Hz
LED Indicators:	1 x Power LED 1 x HCNA Link/Activity LED 4 x Ethernet Link/Activity LED
SAT HCNA Transmission Spectrum:	12MHz ~ 44MHz and coexist at 47MHz
Operating Temperature:	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature:	-20°C ~ 70°C (-4°F ~ 158°F)
Humidity:	10 to 90% (non-condensing)
Dimensions:	173mm x 142mm x 30mm(6.81" x 5.59" x 1.18")