

DYNAMIX HP-52/S FXS

HCNA Coax MDU

Voice Endpoint



User's Guide

V1.0

INTRODUCTION

This HCNA (HomePNA3.1 over Coax) coax MDU voice endpoint connects the telephone and Ethernet device to a high speed access for Internet access. This bridge brings you the latest Ethernet compatible technology that uses the coaxial cable as the network's physical wiring thereby eliminating the need to install new wiring. It is designed to operate on the coaxial TV cable installed in building.

This bridge is to connect PCs and telephone to broadband access of cable operators by simply plugging into the existing coaxial F-Type connector in home.

Features

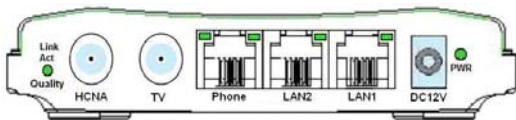
- Plug & Play
- Using existing coaxial TV cable to provide in-building distribution network of broadband access
- Shares Internet access and cable TV video
- 1 port connection compliant with HomePNA 3.1 over Coax (HCNA) standard
- 2 Standard 10/100BaseT Fast Ethernet ports for connecting to PC or Set-Top-Box(STB)
- 1 Phone Port for VoIP Voice Service
- MDI/MDIX Auto Crossover Support
- QoS Priority Mapping Support
- Configurable QoS, Tag VLAN, Bandwidth Control
- Statistics and Status Information Support

- 1 -

HARDWARE INSTALLATION

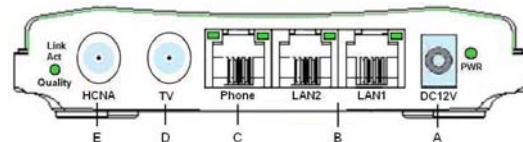
Parts Names and Functions

LED Indicators on the Rear Panel





| Port | LED | Status | | |
|-------|----------|--|---------------------|-------------------------|
| | | ON | Flashing | OFF |
| DC12V | PWR | Power ON | N/A | Not powered |
| LAN1 | LAN1 | Link | Receive or Transmit | Disconnect or Link fail |
| LAN2 | LAN2 | Link | Receive or Transmit | Disconnect or Link fail |
| Phone | Left | Link | N/A | Disconnect or Link fail |
| | Right | Connected | Call Progress | No Call |
| HCNA | Link Act | Link | Receive or Transmit | Disconnect or Link fail |
| | Quality | Green:High Orange:Medium Red:Low | | |



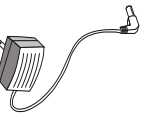
Ports on the Rear Panel

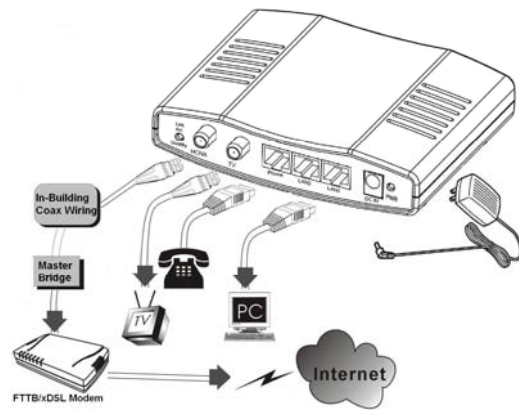


| | Port Name | Type | Functions |
|---|-----------|-------|--|
| A | DC12V | DC | Connect to the power adapter plug. |
| B | LAN1/LAN2 | RJ-45 | Connect to Ethernet port on PC or Set-Top-Box for Internet Access. |
| C | TV | F | Connect to TV |
| D | Phone | RJ-11 | Connect to Phone |
| E | HCNA | F | Connect to F-Connector on wall |

Essential Hardwares

| Items Included | Description | Purpose |
|--|--------------------------------|--|
|  | HCNA MDU Voice Endpoint | Main Unit |
|  | Coaxial Cable (F-Type/ RG-59U) | Connects from HCNA port to coax F-Type connector on the wall outlet. |

| | | |
|--|---------------------|---|
|  | CAT5 Ethernet cable | Connects from LAN port to Ethernet enabled devices as PC or STB |
|  | Telephone wire | Connects Phone port to phone set |
|  | DC12V Power adapter | Connects from Power port of the main unit into a wall outlet |



The figure above shows how to connect an FTTB or xDSL modem, telephone and PC to the voice endpoint and in-building coaxial network.

Now you should have connected the LAN port, HCNA port and the DC12V port to the appropriate devices or lines. LED will be as:

| | |
|---------------|----------------------|
| PWR | ON |
| LAN | ON |
| Phone (Left) | ON |
| HCNA Link/Act | ON (Green or Orange) |

For more information on LEDs, see section entitled "[LED Indicators on the Rear Panel](#)"

Hardware Connections

1. Select a convenient location for the bridge near the PC or Ethernet device to which it will be connected. The bridge should be kept away from excessive heat.
2. Using one coaxial cable to connect the HCNA port to F-Type connector on the wall. Using another coaxial cable to connect the other F-type TV port to TV set (optional).
3. Connect the LAN1/LAN2 port to your Ethernet-equipped device.
4. Connect the telephone to Phone port.
5. Connect the power adapter to the DC12V port into a wall outlet.

- 4 -

- 5 -

TROUBLESHOOTING

The bridge has been designed to be a reliable and easy to use connection device. Please refer to the list below to aid in troubleshooting.

The PWR (green) LED is off.

- Make sure the power adapter is properly plugged into a live electrical outlet.

The LAN (Ethernet) LED is off.

- Make sure the connection to LAN port is secure.
- The Ethernet device to which you are connected should be powered on and properly configured.

The HCNA Link/Act/Quality LED is off or red

- Make sure the connection to HCNA port is secure.
- HCNA device to which you are connected should be powered on and properly configured.
- Make sure the quality of coaxial connector and cable is good.

The Phone (Left) LED is off.

- Make sure the settings of VoIP SIP registered account is correct.

- 6 -

SPECIFICATIONS

Standards

- IEEE 802.3 10BaseT Ethernet
- IEEE 802.3u 100BaseT Fast Ethernet
- HomePNA 3.1 over Coax compliant
- SIP v1(RFC2543), v2(RFC3261)

Data Rates

- HCNA: 224/192 Mbps maximal
- Ethernet: 10/100 Mbps

Transmission Range

- HCNA : Up to 65dB attenuation
- Ethernet: 100 meters maximum

Power Consumption

- 12V DC, Less than 6 watt

Certifications

- CE, FCC Part 15

LEDs

- Power
- Ethernet Link/Activity
- Phone Link and Call Progress
- HCNA Link/Activity/Quality

Connectors

- Two F-Type connectors, one for connecting with HCNA device, and one for TV Bypass
- Two RJ-45 for 10/100Mbps Ethernet
- One RJ-11 for Telephone

Cables

- HCNA: F-Type RG-59U coaxial cable
- Ethernet: CAT5 or better UTP

- 7 -