ACI Communications, Inc.

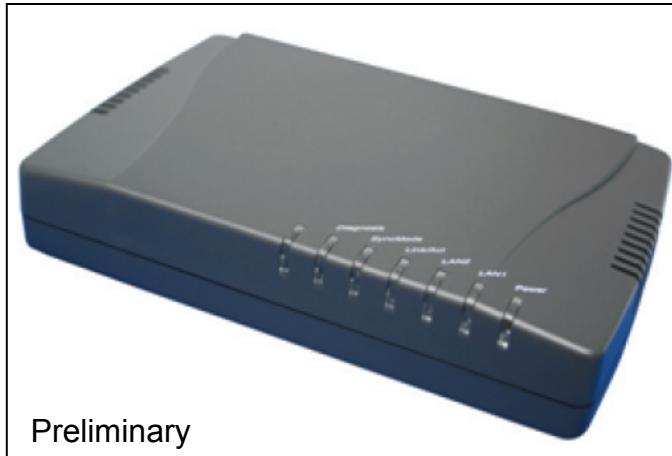## Serving the CATV Industry Since 1986

ACI 810
HCNA 144M Coax MDU Master Bridge

Preliminary

ACI 810 is the HomeCNA Coax MDU Master, enables you to start the Triple-Play services to a small scale apartment building.

No additional network wiring is necessary. You may just use the existing coax wiring in the MDU building, and be ready to provide broadband services to subscribers.

Low initial deployment cost compare to the high cost xDSL solutions, suitable to small scale building with limited subscribers.
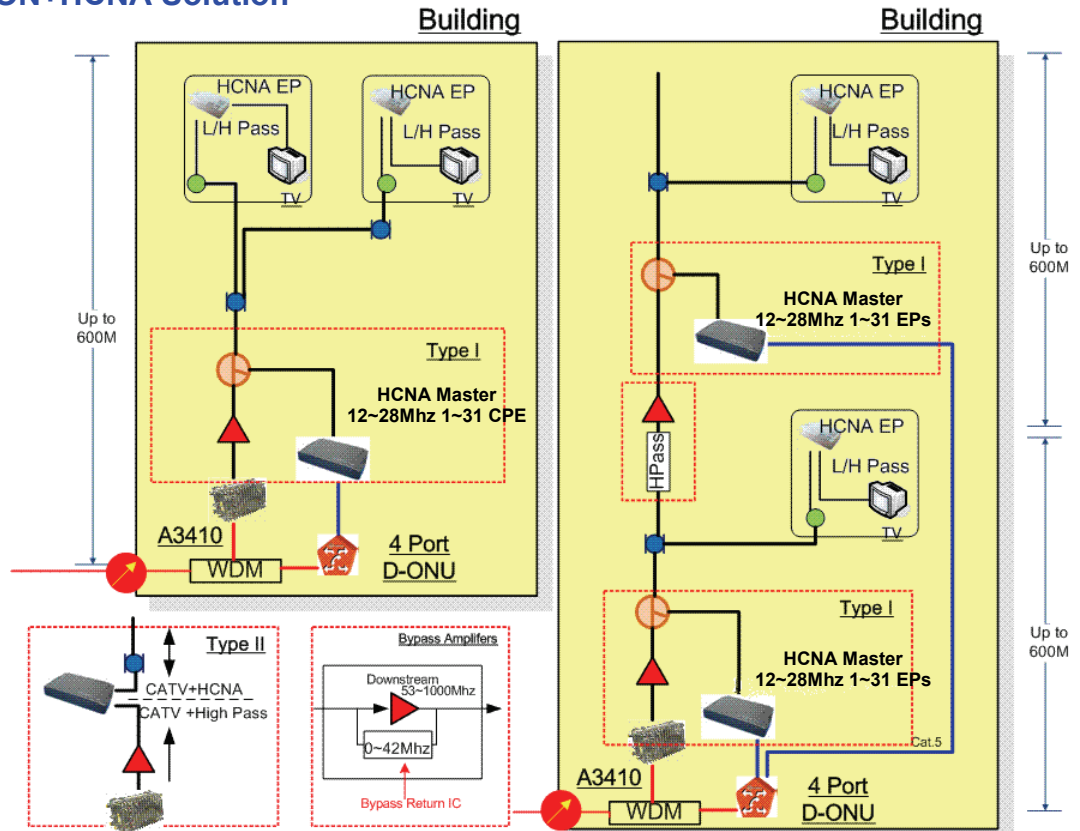
Via the RJ-45 Ethernet Ports, connect the MDU master with broadband access devices such as fiber media converter and ADSL/Cable Modem.

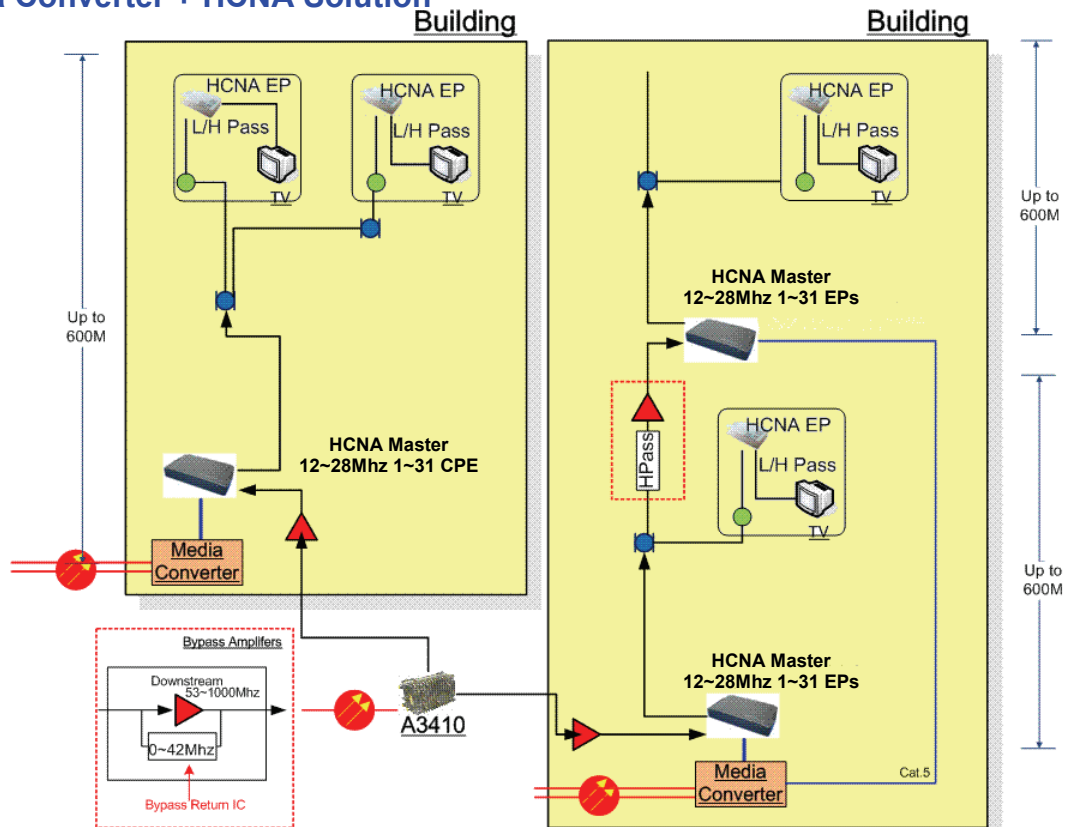The remote management function help to ease the support.

Feature

- 144Mbps HCNA Coax Port as Distribution. Backbone by Using Existing Coaxial Cable
- Two 10/100M Fast Ethernet Ports for FTTH, ADSL/Cable Modem
- Distance up to 1219 meter(4000 ft) on RG59 wires
- Filter Built-in to Eliminate Noise from TV/Antenna
- Remote Web Configuration and Diagnosis
- Secured and Isolated Communication
- Provision/Denial of Service
- Recovery from F/W Upgrade Failure
- QoS Priority and Mapping Support
- Support TagVLAN (Tag/UnTag), IGMP Snooping V1 and V2

GE-PON+HCNA Solution

Media Converter + HCNA Solution

Specification

Network Interface	• HomePNA3.1 over Coax (HCNA) Compliant • IEEE802.3u 100Mbps Fast Ethernet • IEEE802.3 10Mbps Ethernet • IEEE802.3x Flow Control • 10/100Mbps Auto-Negotiation Support • MDI/MDX Auto-Detection Support	Connectors	• Ethernet LAN Port: 2 Ports, RJ45 Jack • HCNA Port: 1 F-Type Port to HCNA Coax Network • TV/Antenna Port: 1 F-Type Port to TV Set or from CATV/Antenna
Network Management	• Remote Management by HTTP / TELNET / SNMP Protocols • Firmware and HCNA Driver are Upgradeable via HTTP or TFTP • Enable/Disable Endpoint Service • Subscriber Host (PC) Number Control in Endpoint • Diagnosis of HCNA Interface • Bandwidth Control • 802.1Q Tag VLAN Support • IGMP v2 Snooping Control • Ethernet Statistics and Status	Led Indicator	• Power • Ethernet LAN Link/Activity per Port • HCNA Link/Activity • HCNA SyncMode • HCNA Endpoint Diagnosis
		Terminal Devices (Endpoint)	• Cooperate with HCNA Ethernet Bridge Endpoint (as CES-532D) • Support up to 31 Endpoints • Max Attenuation between Endpoints: 55dB
		Power Requirement	• 5V DC Input • Power Consumption: $<$6 Watts
Quality of Service	• Priority Based on IEEE802.1p, IP TOS and TCP/UDP Port • Based on HomePNA Parameterized QoS	Environment Condition	• Operation: 0 ℃ - 55 ℃ (32–131 ℉) • Storage: -10 ℃ - 65 ℃ (14 – 149 ℉) • Humidity: 10% - 95% Non-condensing
Transmission Power and Spectrum	• 8 +/- 1dBm • 12 ~ 28MHz	Environment Condition	• Operation: 0 ℃ - 55 ℃ (32–131 ℉) • Storage: -10 ℃ - 65 ℃ (14 – 149 ℉) • Humidity: 10% - 95% Non-condensing
Transmission Speed and Range	• Up to 144Mbps • Up to 50dB Attenuation (-176dBm/Hz Noise Floor)	Physical	• Dimension: 160mm (W) x 116mm (D) x 30mm (H) • Weight: 260g

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