

## ACI 710 c.LINK Access Modem



**ACI 710**, c.LINK Access Modem is the layer 2 Ethernet to coax bridge for access networks. It provides a high-speed bridge between standard 10/100BaseT Ethernet network and c.LINK enabled coaxial access network. As a client device in the coaxial access network, the MAM102 layer 2 ECB bridges the traffic between its Ethernet port and c.LINK enabled Network Controller (NC) device. The c.LINK Access Network is a point to multi-point topology, all client devices (layer 2 ECB) communicate to the Headend node (NC), where each of the Headend node can manage up to 31 client devices.

### Feature

- Fully integrated c.LINK controller for coax-based access networks
- Automatic frequency scanning from 800MHz to 1500MHz
- Bandwidth management
- System upstream and downstream rate control
- Client node data rate limits and guarantees
- > 250Mbps coaxial interface
- Single 10/100BaseTX Ethernet interface on RJ-45 connector
- Operates as a c.LINK access network client device
- Central network management through network controller (NC) API and proprietary L2 messaging
- Coexistence with all broadband services and c.LINK networks
- Easily installed into the existing coax plant wiring
- Status LEDs (Power, Ethernet, c.LINK)

## Specification

- RF Interface
  - Connector: F-type, Female
  - Impedance: 75Ω (nominal)
- Frequency Range: 800 ~ 1500 MHz
- Channel Bandwidth: 50 MHz
- Max Transmit Power: 0 dBm +/- 3dBm
- Max PHY Data Rate: > 250Mbps
- Coaxial Link Conditions
  - Min Attenuation (> 250 Mbps PHY rate): 10 dB max
  - Max Attenuation (> 250 Mbps PHY rate): 55 dB min
  - Max Attenuation (> 57 Mbps PHY rate): 75 dB typical
- Data Rate of Coaxial Link
  - >80Mbps FTP download speed with 31 installed CPEs
  - Up to 130Mbps UDP (useful for general data and video delivery)
- Ethernet Application Data Rate: > 130 Mbps
  - Straight coax cable
  - 1518 byte packet size
  - 0 ~ 55dB attenuation
- Ethernet Network Size: 64 Devices
- Ethernet Interface
  - Connector Type: RJ45
  - Configuration: Single Port, Auto-Sensing
  - Protocol: IEEE 802.3x, 100M Fast Ethernet
- Link Delay: 5 ms

## General

- Dimension (L\* W\* H): 104\* 84\* 26 mm
- Weight: 245g
- Operating Temperature: 0°C ~ 50°C
- Storage Temperature: -20°C ~ 60°C
- Operating Humidity: 0 ~ 95% (non-condensing)
- RF/Cable-In Interface: F-Connector, Female/75Ω
- Power Consumption: 6V / DC IN
- LEDs: PWR, Coax LINK, Ethernet ACT, Ethernet LINK
- System Requirement: Minimum 486/66 (Pentium Processor preferred) or Macintosh-compatible CPU (Power PC) Operating systems such as Windows® 95/98/2000/NT/Me/XP; Macintosh® OS 8 or higher; and UNIX®

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