

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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ACI Communications, Inc. reserves the right to discontinue the manufacture or change specifications without prior notice on any parts illustrated in this data sheet. Current drawings are available upon request. Rev.C 01-10-08 **ACI Communications, Inc** Printed in USA