





## CX82310 Features

- **ADSL Compliance**

- Compliant with ADSL standards
  - Full-rate ANSI T1.413 Issue 2 and ITU G.dmt (G.992.1) standards
  - Splitterless ITU G.lite (G.992.2) specification
  - Annex A (ADSL over POTS) and Annex B (ADSL over ISDN)
- DMT modulation and demodulation
- Full-rate adaptive modem
  - Maximum downstream rate of 8 Mbps
  - Maximum upstream rate of 1 Mbps
- Tone detection for low power mode
- Supports splitterless ADSL implementation
- Supports Dying Gasp
- Interoperable with all major DSLAM equipment

- **ATM Protocols**

- WAN mode support: PPP over ATM (RFC 2364) and PPP over Ethernet (RFC 2516)
- LAN mode support: bridged/routed Ethernet over ATM (RFC 1483) and classical IP over ATM (RFC 1577)
- ATM Forum UNI 3.1/4.0 PVC
- Up to 8 VCs (virtual circuits)
- ATM SAR (segmentation and reassembly)
- ATM AAL5 (adaption layer type 5)
- OAM F4/F5

- **Bridge Mode**

- Ethernet to ADSL self learning Transparent Bridging (IEEE 802.1D)
- Supports up to 128 MAC learning addresses

- **Router Mode**

- IP routing-RIPv2
- Static routing
- DNS Proxy
- Port Forwarding
- DHCP (dynamic host configuration protocol) server and client

- NAT (network address translation)
- NAPT (network address and port translation)
- ICMP (Internet control message protocol)
- Simultaneous USB and Ethernet operation

- **Security**

- 802.1x Access Control
- WEP Encryption capable
- User authentication for PPP
- PAP (password authentication protocol)
- CHAP (challenge authentication protocol)
- Password protected system management

- **Ethernet Interface**

- IEEE 802.3 compliant
- 10/100 Mbps
- Media Independent Interface (MII)

- **USB Interface**

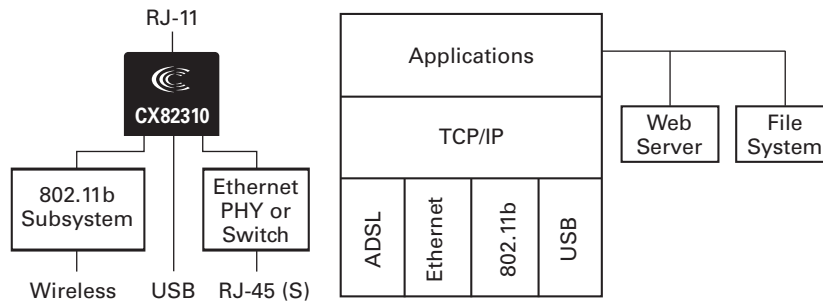
- Compliant with USB Specification, Revision 1.1
- USB full speed (12 Mbps)
- Vendor-specific descriptors
- Windows and Macintosh OS support

- **Wireless Interface**

- PCMCIA-like interface to 802.11b subsystem

- **HTTP Web-Based Management**

- Firmware upgrade via FTP
- Customizable Web pages
- WAN and LAN side connection statistics
- Configuration of static routes and routing table
- Configuration of NAT/NAPT
- Password protected access
- Selection of bridge or router mode
- PPP user ID and password
- Configuration of VCs (virtual circuits)



**Single-Chip ADSL Router Solution and Embedded Firmware**

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