



CX82340 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

- **802.11b MAC/Baseband**

- Complete DSS baseband processor
- 802.11 compliant MAC
- Interface to Intersil PRISM® 3.0 Radio
- RAKE receiver with decision feedback equalizer
- Processing gain: FCC compliant
- Programmable data rates: 1, 2, 5.5, and 11 Mbps
- DBPSK, DQPSK, and CCK Modulation
- Supports full or half duplex operations
- On-chip A/D and D/A converters for I/Q data, AGC, and adaptive power control
- Supports short preamble and antenna diversity
- Interoperable with IEEE 802.11b (DSSS) 2.4 GHz – compliant 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, Ethernet and wireless operation

- **Security**

- Upgradeable for WPA compliance
- 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**

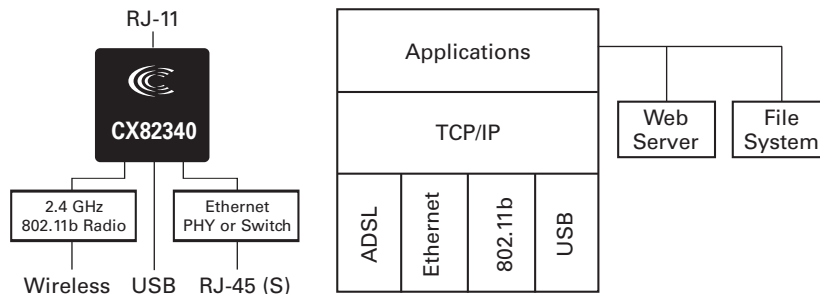
- IEEE 802.3 compliant
- 10/100 Mbps
- Media Independent Interface (MII)

- **USB Interface**

- Compliant with USB Specification, Revision 1.1
- USB full speed (12 Mbps)
- Vendor-specific descriptors

- **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)



CX82340 ADSL – Wireless Access Point Router Solution and Embedded Firmware

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