



Wireless V.92 Modem/ Wireless Narrowband Router

Fully Embedded Operating System Running Ethernet 802.11b and V.92

The Conexant Wireless V.92 modem will allow multiple users to share the Internet connection without the need of wires using your existing phone line. The Wireless V.92 modem offers the customer a fully controller-based V.92 modem using 802.11b and 10/100 Ethernet PHY as the interface to the PC.

Since the solution executes the network functions and V.92, the Wireless V.92 modem allows multiple PC's in the home/SOHO to share the narrowband connection. Families or small businesses using a single line could browse, e-mail or use instant messaging.

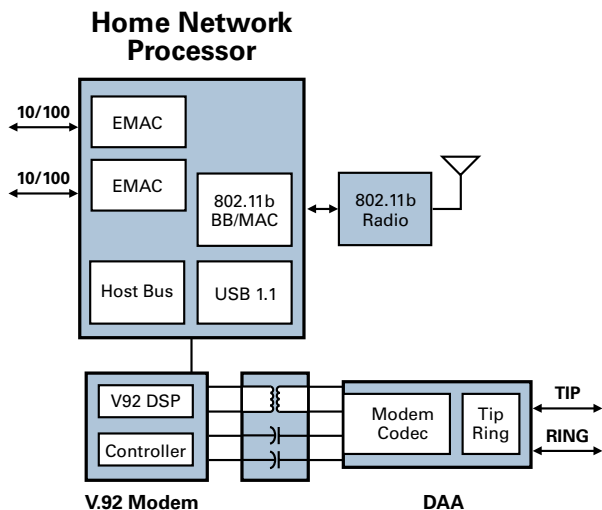
The Web GUI offers easy configuration to the user without any host software. Diagnostic messages are displayed for easy troubleshooting. This low cost solution uses the CX82140 Network Processor, CX81801 SmartV.XX single-chip modem and CX20493 SmartDAA® 3.



- Reduce support calls to ISP
- Helpful diagnostic messages
- Easy to use web GUI for configuration
- Offers seamless broadband experience
- External platform eliminates operating system dependency
- Provides multiple PCs with simultaneous access to the network
- Browser-based customer interface - modifiable for co-branding
- When broadband is unnecessary or too expensive
- Family sharing of single telephone connection
- Easy to use, self-installing
- Narrowband connection sufficient for e-mail, instant messaging, stock quotes and HTML applications

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Network Modem Block Diagram



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Features

CX82140

- Supports two EMACS for a two port router
- Executes full Network Stack
- Local web server
- 802.11b BB/MAC

CX81801

- V.92 DSP Functions
- Modem Codec connects to the DAA
- Host bus transfers the data to and from the CX82100
- Executes modem controller functions
 - V.42bis data compression
 - V.42 error correction
 - AT commands

CX20493

- Worldwide Silicon DAA

HTTP Server/GUI

- The local HTTP server is for user-friendly configuration
 - Displays detailed diagnostic messages
- Firewall security
 - Users do not have to worry about unauthorized and potentially dangerous access to their computers
 - Automatic Stateful Packet Inspection (SPI)
- Multiple computers with simultaneous access to the narrowband network
- NAT based IP sharing with pass through for one PC
- DHCP Client

Upgrade Path to Broadband

- Network Modem offers seamless broadband upgrade
- User software stack and connections (RJ-11, RJ-45) do not change

Customer Interface

- Easy-to-use, self-installing, browser-based customer interface – modifiable for co-branding