



Network Processor with Integrated Ethernet Switch

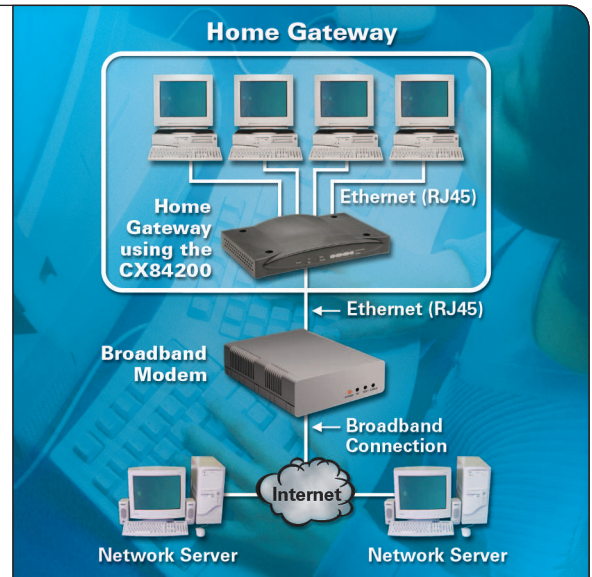
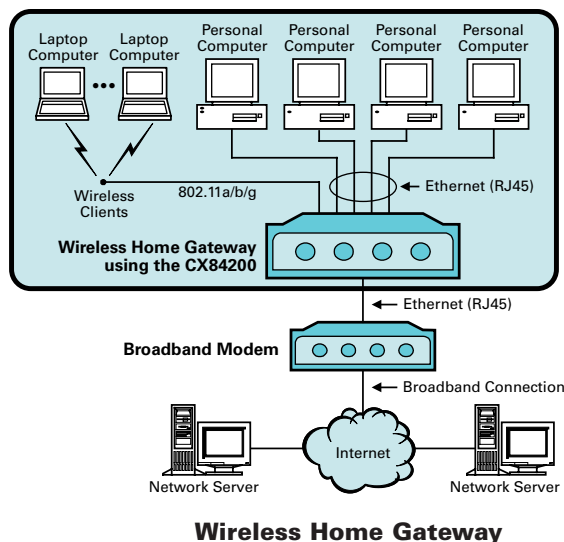
CX84200

Single-Chip Solution with Integrated Five-Port Ethernet Switch

Conexant's broadband communications portfolio includes a comprehensive suite of semiconductor solutions that enable the digital home and information network. The Conexant CX84200 Network Processor supports complete networking system solutions for a wide variety of mainstream applications in the residential and SOHO environments. Based on a 75 MHz ARM7TDMI, this Network Processor is a single-chip solution with an integrated switch that supports five 10/100 Mbps Ethernet ports.

In a Broadband Gateway application, the CX84200 Network Processor can provide Internet access sharing capability for multiple PCs, while supporting Ethernet, HomePNA (Phoneline), HomePlug (Powerline), IEEE 802.11 and other LAN-side networking platforms. For WAN access, the unit supports Ethernet connectivity interoperable with any broadband modem. It is the ideal platform for a configurable broadband gateway design that needs to accommodate many diverse WAN/LAN topologies.

The device complies with IEEE 802.3 specification and includes five embedded DSP-based 10Base-T/100Base-TX transceivers. An auto negotiation function determines the selection of either the 10Base-T or 100Base-TX mode. Typical applications would be a Wireless Home Gateway including an Ethernet WAN port to connect to a Broadband modem, four Ethernet LAN ports, and an 802.11b access connecting to any Wi-Fi compatible device.



CX84200 Distinguishing Features

- Single-chip, high-performance processor with five-port integrated Ethernet switch
- Can be easily integrated with various IEEE 802.11b solutions
- Supports HomePlug (Powerline) and HomePNA (Phoneline) through an MII interface

Part Number CX84200

Description Network Processor with Integrated Ethernet Switch

