

## CX94610

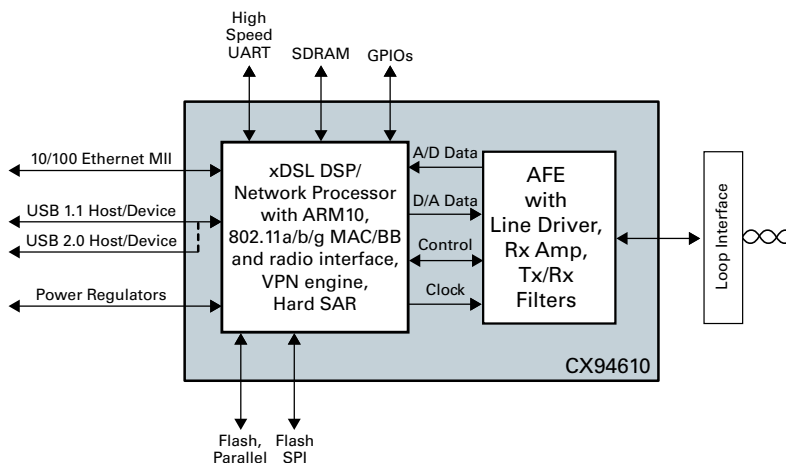
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At the center of the CX94610 chipset is a high performance ARM™-based RISC processor core, which supports industry standard operating systems such as Linux® as well as Conexant's full-featured, advanced ISOS® software suite. To assist the processor, additional hardware engines, including a dedicated Wi-Fi processor, virtual private network (VPN) engine, and hardware ATM SAR, are integrated to support compute intensive tasks. The software solutions for the CX94610 include full support for advanced features such as IPTV quality of service (QoS), advanced firewall, and DSLHome™, the DSL Forum's initiative to standardize and simplify the provisioning and configuration of the DSL gateway.



- Support for ADSL/ADSL2/ADSL2plus
- Integrated MAC/BB for high speed 802.11a/b/g interfaces to Wi-Fi transceivers and RF front end modules
- Integrated high performance ARM network processor
- Integrated power regulators to simplify power supply design and reduce overall system cost
- Support for USB 1.1 and 2.0 host/device applications
- High speed SDRAM interface
- Hardware VPN engine supporting DES, 3DES, AES), SHA-1, SHA-256, and MD5 operations
- Open OS support for Linux, ISOS, and third party stacks
- Support for extended impulse noise protection (INP) for better IPTV quality

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**CX94610 Block Diagram**

## Product Features

- Support for ADSL/ADSL2/ADSL2plus (G.992.1, G.992.2, T1.413, G992.3, G.992.5) with optimized AFE designed to meet ADSL (TR-067) and ADSL2plus (WT-100) requirements
- Integrated field-proven xDSL DSP core with Annex A, B, M, I, J, and L support
- Integrated 10/100 Ethernet MAC with MII interface
- Optimized power management with support for dying gasp
- QoS features including support for extended (INP for better IPTV quality)
- Support for Parallel and Serial (SPI) Flash
- Support for DSLHome including TR-064, TR-068, TR-069, TR-098, TR-104, TR-106, TR-110, TR-111, TR-124, TR-133
- Memory and feature optimized binary and source software releases for targeted deployments
- Advanced wireless features including WPS and Smart Antenna support
- Easy to use HTML based graphical user interface (GUI) tools for customization of user configuration web pages.
- Modular IP stack with comprehensive networking protocol support including advanced bridging and routing capabilities, dynamic host configuration protocol (DHCP), point-to-point protocol over Ethernet (PPPoE), point-to-point protocol over ATM (PPPoA)
- PPP and tunneling features and routing information protocol (RIP)
- Simple network management protocol (SNMP) agent and tools
- Stateful packet inspection (SPI) firewall and network address translation (NAT) security solution
- ATM SAR engine supporting unspecified bit rate (UBR), constant bit rate (CBR) and other service classes
- UPnP for seamless network interconnectivity
- Common customer development environment and tools across ADSL to VDSL2 products
- Reference designs available for rapid prototyping
- Pin compatible option to the CX94615 Family (ADSL2plus Chipset with Integrated Wireless LAN and Voice) for platform flexibility.

## Applications

- Wireless DSL bridge
- Wireless DSL router
- Integrated Wireless DSL gateway

## Conexant Product Portfolio

The company's broad portfolio of semiconductor products also includes client-side DSL and cable modem solutions, home network processors, broadcast video encoders and decoders, digital set-top box components and systems solutions, and dial-up modems. In addition to its IEEE 802.11a/b/g-compliant WLAN chipsets, software, and reference designs, Conexant offers a suite of networking components that includes solutions for applications based on HomePlug® and HomePNA™. Additional products include a complete line of asymmetric and symmetric DSL central office solutions, which are used by service providers worldwide to deliver broadband data, voice, and video over copper telephone lines.

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