

CX96xxx - VDSL2 Chipset Family

Description	VDSL2 IAD Chipsets
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Forum's initiative to standardize and simplify the provisioning and configuration of the DSL gateway. The comprehensive ISOS software suite for the new product family extends across Conexant's complete line of broadband access Customer Premise Equipment (CPE) products from ADSL2plus bridges to advanced VDSL2 gateways.

Chipset	Profile 30a	Profile 17a	Profile 12x	Profile 8x	Data Bridge	Voice	Gateway	Bonding
CX96629			X	X		X	X	X
CX96429	X	X	X	X		X	X	
CX96420	X	X	X	X			X	
CX96329		X	X	X		X	X	
CX96320		X	X	X			X	
CX96220	X	X	X	X	X			
CX96820		X	X	X	X			

- Support for VDSL2 (G.993.2) with ADSL/ADSL2/ADSL2plus fallback (G.992.1, G.992.2, T1.413, G992.3, G.992.5)
- Integrated, field-proven xDSL DSP core architecture delivering profiles 8x, 12x, 17a, 30, long reach and VDSL2 pair bonding
- 16/32-bit DDR-1 interface
- Integrated 10/100/1000 Ethernet gigabit MAC with GMII, MII and TBI interfaces
- Integrated 10/100 Ethernet MAC with MII interface
- Integrated PCI interface with 32-bit x 33 MHz
- USB2.0 interface via ULPI with host and device mode capability
- External Parallel Bus (EPB) provides support for NAND flash devices along with host interface mode for external host control
- Support for parallel flash and serial flash
- Integrated Voice DSP engine supports up to two VoIP channels with HW echo cancellation
- PCM interface to external Conexant's single- or dual-channel industry standard SLIC/Codec integrated devices (CX20560 & CX20559) or industry standard SLIC/codec devices
- Interface to lifeline backup using Conexant's cost effective SmartDAA FXO technology
- MGCP and SIP stacks for VoIP
- Optimized power management with support for dying gasp
- 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
- 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

- VDSL2 17 MHz or 30 MHz bridges
- VDSL2 17MHz or 30 MHz gateways
- Wireless VDSL2 17 MHz or 30 MHz gateways
- VDSL2 17 MHz or 30 MHz voice gateways
- VDSL2 12 MHz pair bonded voice gateway

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.

