



Chipset	Profile 30a	Profile 17a	Profile 12x	Profile 8x	Voice	Gateway	Bonding
CX96629			X	X	X	X	X
CX96429	X	X	X	X	X	X	
CX96420	X	X	X	X		X	

Product Features

- 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 VDLS2 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
- USB 2.0 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
- 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
- HW VPN Engine supporting DES, 3DES, AES, SHA-1, SHA-256 and MD5 operations
- Memory and feature optimized binary and source software releases for targeted deployments
- 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
- Common customer development environment and tools across ADSL to VDSL2 products

Applications

- 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

Conexant Product Portfolio

The company's broad portfolio of semiconductor products also includes client-side DSL, cable, and dial-up modem solutions; fiber optic system-on-chips; broadcast video encoders and decoders; and digital set-top box components and systems solutions. 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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