



Conexant's SHDSL Orion chipset provides value added features well beyond the scope of existing DSL market segments, enabling system vendors to enter new markets and significantly differentiate their offerings. Examples of such features include integrated services digital network digital subscriber line (IDSL) support, provision for rates up to 4.6 Mbps for multiple tenant unit/multiply dwelling Unit (MTU/MDU) applications, and SHDSL 4 wire support on the same hardware platform. To accelerate original equipment manufacturer (OEM) time-to-market, Conexant provides fully documented, turnkey transceiver reference designs, development systems, and technical support.

Conexant has a broad portfolio of semiconductor products, including:

- DSL, dial-up, and cable modem solutions
- Home network processors
- Broadcast video encoders and decoders
- Digital set-top box components and system solutions

Conexant also offers wireless data and networking solutions that includes HomePlug, HomePNA, and WLAN (802.11) components and reference designs.

Orion Features and Benefits

- High-density transceiver consisting of a 160-pin plastic ball grid array (PBGA) DSP/Framer and 28-pin thin shrink small outline package (TSSOP) analog front end/line driver (AFE/LD)
- 1.8 cm² per port density for chipset
- Optimal performance vs. power design
- Compliant with G.991.2
- Extended embedded operations channel (EOC) management
- CO or CPE selectable
- Time-division multiplexing (TDM) and UTOPIA interfaces supported
- Pulse amplitude modulation (PAM), quadrature amplitude modulation (QAM), and 2 binary to 1 quaternary (2B1Q) modulation supported
- Joint test action group (JTAG)
- Supports rates up to 2.3 Mbps

Applications

- High density access multiplexers
- T1/E1 line cards and repeaters
- Router and bridge CPE
- DAML systems
- Leased line services
- Cellular base station

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