



CX86500 Modem Block Diagram
*38-pin version only



26mm x 59mm
CX86500 Modem Reference Design

CX86500 Features

- **Modulations and protocols**
 - ITU-T V.92: Quick Connect, Modem-on-Hold and PCM upstream
 - V.90/V.34/V.32bis/V.32
 - V.22bis/V.22/V.23/V.21
 - V.23 reverse, V.23 half-duplex
 - Bell 212A/Bell 103
 - V.29 FastPOS and V22 Fast Connect
 - V.80 Synchronous Access Mode
- **V.44/V.42bis/MNP5 data compression**
- **V.42/MNP2-4 Error correction**
- **Call waiting (CW) detection for selected countries**
- **DTE/host interface**
 - Serial DTE interface
 - Parallel 16550 UART-compatible host interface (38-pin version only)
 - Direct mode
 - Synchronous mode and asynchronous mode
- **Hardware and software flow control and speed buffering**
- **Embedded and upgradable 63 country profiles**
- **Serial NVRAM interface for optional country profile storage (38-pin version only)**
- **Full-duplex 8-bit/16-bit PCM voice pass-through mode**
- **Selectable 28.224 MHz or 27.000 MHz frequency of operation**
- **Worldwide operation**
 - Complies to TBR21 and other country requirements
 - Type I and Type II Caller ID (CID) decoding for selected countries
 - Call progress, blacklisting
 - Meets worldwide DC mask requirements
- **Low power and voltage**
 - Single +3.3 V supply
 - Low power consumption mode
 - +3.3 V I/O level
- **Compact, robust board design**
 - Small, low-profile modem packages
 - Reference design supports 5KV isolation

SmartDAA Features

- **Extension pick-up detection**
- **Digital line protection**
- **Line reversal detection**
- **Remote hang-up detection**
- **Worldwide compliance**

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; digital set-top box components and systems solutions; and IEEE 802.11a/b/g/n-compliant WLAN chipsets. 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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