

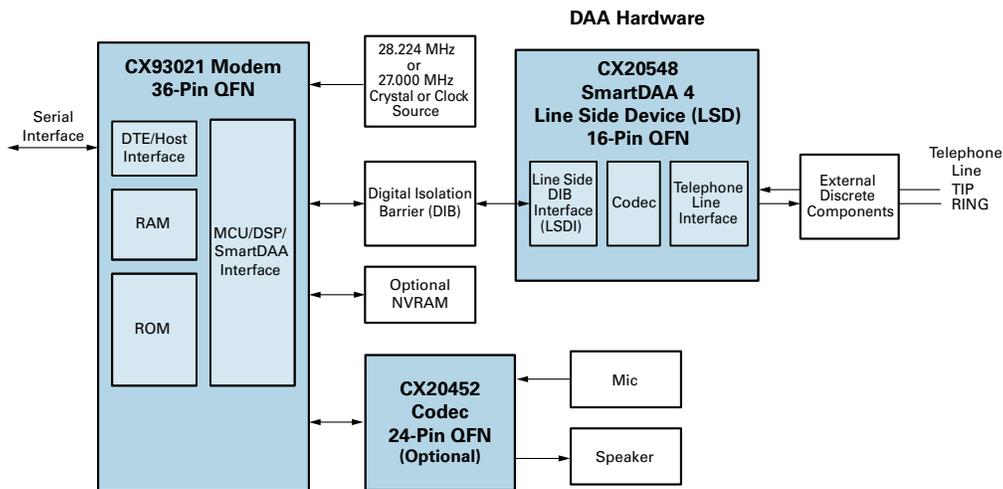


Conexant's advanced proprietary speakerphone algorithm, which supports full-duplex voice conversation with acoustic, line and handset echo cancellation to ensure clean and noise free voice quality.

In TAM mode, enhanced 2-bit or 4-bit per sample coding schemes at 8 kHz sample rate provide flexible format compatibility and allows efficient digital storage of voice/audio. Also supported are 8-bit A-law, μ -law, and linear coding and IMA 4-bit Adaptive Differential Pulse Code Modulation

(ADPCM) coding. This mode supports applications such as digital telephone answering machine, voice annotation, and recording from and playback to the telephone line.

Small, low-profile packages, reduced voltage operation, and low power consumption make this device set an ideal solution for embedded applications.



CX93021-2x CSM92/34/32-SP Modem Simplified Interface

CX93021-2x 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 V.22 Fast Connect
 - SIA Protocol and Contact ID for alarm equipment
 - V.80 Synchronous Access Mode
 - V.17/V.29 Fax Class 1/1.0 and Fax Class 2
- V.44/V.42bis/MNP5 data compression
- V.42/MNP2-4 Error correction
- Call waiting (CW) detection for selected countries
- Asynchronous Serial DTE interface
- Hardware and software flow control and speed buffering
- Embedded and upgradable 63 country profiles
- Optional serial NVRAM interface for country profile storage and code upgrades
- Full-duplex 8-bit/16-bit PCM voice pass-through mode
- 28.224 MHz or 27.000 MHz frequency XTAL or clock input
- Worldwide operation
 - Complies to TBR21 and other country requirements
 - Type I and Type II Caller ID (CID) decoding
 - Type II Caller ID snooping

- 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
 - Reference design files provided for quick time-to-market
 - Reference design tested for PTT and TBR 21 approvals
 - Small, low-profile modem packages
 - Reference design supports 6KV isolation
- Telephony/TAM
 - V.253 commands
 - 2-bit and 4-bit ADPCM, 4-bit IMA ADPCM, 8-bit and 16-bit linear PCM, and 8-bit μ -law and A-law PCM coding
 - 8 kHz sample rate
 - Concurrent DTMF, ring, and Caller ID detection

SmartDAA Features

- Extension pick-up detection
- Digital line protection
- Line reversal detection
- Remote hang-up detection
- Worldwide compliance
- CX20548 SmartDAA 4 LSD in a 16-pin QFN
- Worldwide support with a single design

Conexant Product Portfolio

Conexant's comprehensive product portfolio includes solutions for imaging, audio, and video applications, and analog modems that enable cost-effective Internet access. The company's broadband access products include end-to-end solutions for xDSL networks, and PON solutions for fiber optic applications.

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