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Quad Pro-X Programmable Extended CODEC/SLCC

The W684386, implements a quad channel FXS telephone line interface optimized for short loop applications. It integrates SLCC (Subscriber Line Control Circuit) functionality with a quad programmable CODEC and a quad DC-to-DC controllers. The SLCC supports internal ringing up to 90 VPK (5 REN at 4k ft) ideal for Customer Premise Equipment (CPE). The CODEC can be configured for µ-law, A-law or 16-bit linear PCM encoding. It also supports a comprehensive set of signaling capabilities required to supervise and control the telephone lines. These include tone generation, ring tones, DTMF generation as well as FSK and metering pulse generation. An on-chip Pulse Width Modulation (PWM) driver allows control of a per channel DC-to-DC converter or a centralized transformer-based DC-to-DC converter. Programmable impedance and trans-hybrid balancing allow for worldwide deployment.

For additional technical documentation, please Contact Sales.

All packages available in Pb-free

Block Diagram

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Block Diagram Key Features Benefits/Applic Application Dia Product Brief Request Datas Product Selecti How To Buy



Key Features

Performs complete BORSCHT functions for four channels on a single device

Internal balanced and unbalanced ringing up to 90 VPK (5 REN up to 4 kft)

Integrated Power Management options Integrated per channel DC-to-DC controller Centralized Transformer DC-to-DC controller

Programmable External Battery Switching Programmable linefeed characteristics

> Ringing frequency, amplitude, cadence Trapezoidal and sinusoidal waveforms Two-wire AC impedance, transhybrid balance Constant current feed (20 to 41mA) Ring trip and loop closure thresholds Ground Key Detect External ringing relay and ring trip support Soft Polarity Reversal

Benefits

High integration reduces overall system BOM and footprint Low power consumption for battery-backup and other power sensitive applications

High programmability reduces real-time software overhead Extensive line sensing enables diagnostics support Programmable signal generation
DTMF generation
Metering pulse generation (12/16kHz)
Enhanced Caller ID (FSK) generation (Type I a Tone generation (up to four simultaneous)
G.711 µ-Law/A-Law / 16-bit linear PCM audio Programmable audio path gains
Loop test and diagnostics support Integrated loopback modes
Realtime linefeed monitor
On-chip temperature sensor
PCM and SPI bus digital interfaces
PCM Master and Slave modes supported
On-chip PLL for flexible clocking options including 1
2.000 MHz BCLK operation

3.3V operation

Applications

Analog Telephone Adapter Voice enabled DSL Modems Voice enabled Cable Modems Residential VoIP Gateways / Routers Integrated Access Devices Fiber to the Premise/Home (FTTP/H) Optical Network Terminals (ONT) Set Top Boxes Wireless Local Loop, PBX, ISDN NT1/TA



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