V.92/V.90 PCI Modem Solution

SmartPCI2800™

Smart Link's **SmartPCI2800™** is a V.92/V.90 PCI modem solution optimized for the PCI (Peripheral Component Interconnect) bus specification.

This innovative solution is based on proven Smart Link modem technology already found in millions of modems worldwide.

Smart Link's modem technology moves the modem, fax, and telephony functions previously performed by a DSP to the computer's own host processor's available resources. This approach offers the end user the lowestcost with maximum flexibility through software upgrades.

SmartPCI2800™ offers V.92/V.90 modem, fax and telephony features in a single chip design made of a compact (LQFP100 14x14mm) PCI modem controller with integrated codec and a transformer-based, discrete DAA (Data Access Arrangement).

SmartPCI2800™ is an extremely cost effective and reliable solution for high volume PCI modem shipments.

KEY FEATURES

Modem
- V.92 (up to 56 Kbps download, 48 Kbps upload)
- V.90 (up to 56 Kbps download, 33 Kbps upload)
- V.34 (4.8 Kbps to 33.6 Kbps)
- V.32 bis (4.8 Kbps to 14.4 Kbps)
- V.23 (75 bps to 1.2 Kbps)
- V.22 bis (50 bps to 2.4 Kbps)
- V.21, Bell 103 / Bell 212
- Automode
- V.44/V.42 bis/MNP 5 data compression
- V.42/MNP 2-4 error correction
- Hayes AT command set
- TIES escape code
- Quick Connect (V.92)

Fax
- Group 3, Class 1
- V.17
- V.29
- V.27 ter

Voice Features
- ADPCM voice compression
- Digital Answering Machine

Telephony Services
- Wake Up on Ring
- Ring detection
- On/Off hook control
- Call progress monitor
- DTMF detection and generation
- Voice/fax/modem distinction
- Caller ID (optional)
- Modem on Hold (V.92)

Video Conferencing
- V.80/H.324 interface support

Operating System Support
- Windows (95, 98, 98SE, ME, 2000, XP, NT4), Linux

Diagnostic Tool
- Modem Helper™

TECHNICAL DETAILS

Hardware
The SmartPCI2800™ reference design supports:
- US and international applications
- Optional Call Progress Buzzer
- PCI 2.3 compliant
- Support for PnP ID without EEPROM

Software
SmartPCI2800™ drivers conforms to:
- TAPI
- Multimedia API
- AT command set standard
- WHQL logo certification

Chipset
SL2800 PCI Modem Controller with Integrated Codec
- PCI 2.3 compliant
- 3.3V Power Supply
- Package LQFP100 (14 x 14 x 1.4 mm)
- Temperature Range 0-70ºC

SmartPCI2800™ Manufacturing Kit
- Reference card with Drivers
- Schematics, Gerber Files, BOM
- PTT Wizard - Homologation Tool
- SL Custom - Customization Tool
- SL Record - Line recording Tool

System Requirements
- Pentium class PC (233 MHz and above)
- Windows (95, 98, 98SE, NT4, ME, 2000, XP,) and Linux
- PCI Slot
- 8 Mbytes RAM

Ordering Information

Part Number	Contents
SmartPCI2800	SL2800

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