SmartLink

SmartPCI562™

V.92/V.90 Modem Chipsets for PCI and MiniPCI

SmartPCI562™

Smart Link's **SmartPCI562™** is a V.92/V.90 modem chipset optimized for the PCI (Peripheral Component Interconnect) and MiniPCI 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. This approach offers the end user the lowest cost with maximum flexibility through software upgrades.

SmartPCI562™ chipsets offer V.92/V.90 modem, fax and telephony features in a 2 chip design made of an extremely compact TQFP64 PCI modem Controller (SL1900) and a leading edge Silicon DAA (Data Access Arrangement) in a SOIC16 package (10x3mm). The complete solution, using a single board layout,can be certified in multiple countries worldwide.

SmartPCI562™ is a cost effective and reliable solution for high volume PCI modem shipments.

KEY FEATURES

Modem
- V.92 (56 Kbps down, 48 Kbps up)
- Modem on Hold (V.92)
- Quick Connect (V.92)
- V.90 (up to 56 Kbps down, 33.6 Kbps up)
- V.34 (4.8 Kbps to 33.6 Kbps)
- V.32 bis (4.8 Kbps to 14.4 Kbps)
- V.23 (75 bps up, 1200 bps down)
- V.22 bis (1200/2400 bps)
- 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
- ACPI power management

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

WHQL
- WLP 2.0 compliant

Voice Features
- ADPCM voice compression
- Digital Answering Machine

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

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

International Approvals
- Single board layout for multiple country certification: FCC, CTR21, JATE and others

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

Diagnostic Tool
- Modem Helper™

TECHNICAL DETAILS

Hardware
The SmartPCI562™ reference design supports:
- Worldwide PTT Approvals
- Optional Call Progress Buzzer
- PCI 2.3 compliant
- Support for PnP ID

Software
SmartPCI562™ drivers conforms to:
- TAPI
- Multimedia API
- AT command set standard
- WHQL logo certification

Chipset
SL1900 PCI Modem Controller
- PCI 2.2 compliant
- 3.3V Power Supply
- TQFP64 Package
- Temperature Range 0-70ºC
DAA (SI3018)
- -84 dB Dynamic Range TX/RX paths
- 3.3V and 5V Power supply
- 4000 Volts Isolation
- SOIC16 package (10 x 3 x 1.55 mm)
- 2 to 4 wires hybrid

SmartPCI562™ 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 (XP, ME, 2000, NT4, 98SE, 98, 95) or Linux
- PCI Slot
- 8 MB free RAM

Disclaimers
- Proper use of our chipsets and drivers are clearly described. Smart Link does not guarantee product performance or accept any liability due to the improper usage of its drivers or chipsets.
- This information and any specification is subject to change without notice: (i) Modem is capable of receiving data up to 56Kbps. Actual send and receive speeds may vary depending upon factors, such as connecting modem and phone line connections. (ii) Modem must use the appropriate US or International chipset version for the country to which it is shipped. (iii) Modem must use the appropriate driver version for the operating system in which it is being installed.
- All trademarks are property of their respective owners.

Ordering Information

Part Number	Contents	Description
SmartPCI562	SL1900, Si3018	Two chip modem solution

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