

## Internal Data/Fax Modem & Audio Combo PCI Card

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56kbps Internal Data/Fax Modem & Audio Combo PCI Card

### Modem & Audio Combo PCI Card Features

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#### Communications

- V.90 and K56Flex
- Windows 95, Windows 98 and Windows NT compatible
- UHRL Certified
- Plug & Play
- ACPI Compatible
- Full function telephone answering machine
- Full duplex speaker phone
- DSVD support, V.70 standard
- V.80 video conferencing support
- Data/Fax communication software

#### Audio

- FM Synthesis
- Patented SoundBlaster emulation
- Analog and digital joystick interfaces
- WaveStream64 software wavetable synthesis
- AC-3 decoding
- 5 Year Warranty

### Modem & Audio Combo PCI Card Summary

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SMARTs 56Kbps Internal Data/Fax Modem & Audio Combo PCI Card is

a full-featured modem with patented SoundBlaster audio emulation. This multi-function single card solution is the first of its type released to the OEM industry. With expertise in modem design combined with Rockwells revolutionary RipTide technology, SMART has successfully merged communications and audio functionality accompanied with the highest level of system integration.

This single card solution combines full-featured audio with the option of software or DSP modem technology. The card meets the V.90 and K56flex modem standards for 56K transmission speeds. It features Digital Simultaneous Voice and Data (DSVD), full-duplex speakerphone and V.80 support for video conferencing. For increased flexibility, the modem features connectors for powered speaker-out, line-out, line-in, mic-in, and a joystick/MIDI interface.

SMART's modem and audio combo solution is a cost-effective way for OEM customers to obtain full modem and audio functionality while utilizing only one PCI slot. This modem is unique to this product market and offers both the OEM and end-user optimum flexibility.

For ease of integration and maximized performance, this product is Windows 98, Windows 95 and Windows NT compatible and provides the latest ACPI advanced power management features including wake-up on ring and caller ID.

## **Modem & Audio Combo PCI Card Specifications**

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### **Communications:**

#### **Data Modem**

- V.90, K56Flex, V.34 (33.6 Kbps), V.32bis, V.22bis, V.22 A/B, V.23, and V.21; Bell 212A and 103
- V.42 LAPM and MNP 2-4 error correction
- V.42bis and MNP 5 data compression
- V.25ter (annex AO and EIA/TIA 602 command set)

#### **Fax Modem**

- ITU-T V.34 fax, V.17, V.29ter, and V.21 ch 2

- EIA/TIA 578 Class 1, Class 1.0 (T.31) fax

### **Digital Simultaneous Voice and Data (DSVD)**

- ITU-T V.70
- ITU-T G.729 Annex A with interoperable
- G.729 Annex B
- Voice/silence detection and handset echo cancellation

### **Full-Duplex Speakerphone (FDSP) with Acoustic Echo Cancellation**

- Over PSTN
- Switching to/from data, fax, DSVD and VoiceView
- Microphone gain and muting
- Speaker volume control and muting
- Adaptive line and acoustic echo cancellation
- Loop gain control, transmit and receive path AGC
- Acoustic echo cancellation concurrent with DSVD
- Noise suppression
- Room monitor

### **Video Conferencing Support**

- V.80
- H.324 Interface Support

### **AudioSpan (simultaneous audio/voice and data)**

- ITU-T V.61 modulation

### **Voice/Telephony Features**

- Voice (4-bit ADPCM compression/decompression)
- TIA-695 command set
- 8-bit linear and 8-bit u-Law record/playback
- 8.0 KHZ, 11.025 KHZ 22.050 KHZ and 44.1 KHZ  
(down sampled to 11.025)
- Handset, acoustic, line echo cancellation
- Music on hold from host or analog hardware input
- TAM support with concurrent DTMF detect, ring detect and caller ID

### **Audio Features:**

- FM synthesis
- Patented SoundBlaster TM emulation (no TSR)
- Analog and digital joystick interfaces

- MPU-401 interface and game port
- Sample rate tracking I2S support
- 3D spatialization
- WaveStream64™ software wavetable synthesis
- Endless Wave™ software wavetable synthesis
- DirectSound™ acceleration
- HRTF-3D (A3D)
- AC-3 decoding

## **Environment:**

### **Temperature**

Operating: 0C to +45C

Storage: -25C to +60C

### **Altitude**

to 20,000 feet

### **Humidity**

10% to 90% (non-condensing)

## **Certifications:**

- FCC Part 15, Class B
- FCC Part 68 PSTN
- Industry Canada (CS 03)

If you need further information, please contact one of our [Local Sales Representatives](#), or fill out our [Info Request Form](#).

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