



# SOHO Conference Card™

## for Voice over the Internet

The SOHO Conference Card gives PC users the ability to conduct an internet telephony conference hands-free and headset-free. The SOHO Card converts your Desktop PC into a High-end, Internet Conferencing device. Simply insert the SOHO Card into an open PCI Card slot and connect your external microphone and desktop speakers. Your Desktop PC is now equipped for Voice over IP and Web Conferencing!



### Applications:

- Internet Telephony
- Video-Conferencing
- Web Conferencing
- Distance Learning
- Instant Messaging

### Features:

#### **Conforms to ITU-T G.167 Standard for Echo Cancellers**

- 100% Full Duplex Performance – No attenuation (either way) during full duplex
- Fast Convergence, even when In Full Duplex Mode
- Very Low Delay

#### **Simple Connectivity / Easy Installation**

#### **Audio Performance:**

- Speech processing and echo suppression at 16KHz sampling rate
- Maintains Audio Performance of the PC for HiFi audio applications

#### **Digital Signal Processor Algorithms:**

- Acoustic Echo Cancellation
- Noise Cancellation
- Residual Echo is Suppressed to the Environment Noise Level to Prevent Artificial Ducking of Signal
- Power Level Equalization

#### **System Requirements:**

- One available PCI2.1 compliant slot
- Will work with any PC microphone, Loudspeakers and Soundcard (microphone included)

### **Specifications:**

- 100% Full Duplex Performance – No attenuation (either way) during full duplex
- Acoustic Echo Cancellation >40 dB
- Noise Cancellation >10dB
- Residual Echo is Suppressed to the Environment Noise Level to Prevent Artificial Ducking of Signal
- Power Level Equalization
- Convergence speed 40 dB/sec
- Tail length (200ms)
- Convergence during full duplex (No recovery time after full duplex)
- Low delay (10 msec)
- Bandwidth 20 – 7500 kHz for Speech Processing Maintains the Soundcard bandwidth for other applications (ie; music, gaming, etc.)

### **Comprehensive Connectivity:**

- Loudspeaker IN (Green)
- Loudspeaker OUT (Green)
- Microphone IN (Pink)
- Microphone OUT (Sky Blue)
- Powered by the PC
- \* Audio cables included (color coded)

## SOHO Card Installation

### You need to have:

- A PC with an empty PCI slot.
- A microphone (a Phoenix Eyeball microphone is included in the SOHO package)
- PC speakers (not included)
- Two color coded Jumper Cables (included in the SOHO package)
- Your PC has to have a soundcard

### You don't need any driver or any software to install and use the card

*Note: the SOHO card "sits" between your microphone and your PC loudspeakers on one hand, and your PC soundcard on the other hand. As such, the microphone and the speakers are connected to the SOHO card, and the SOHO card is connected to the soundcard. The connection to the soundcard is done externally, using Jumper Cables (provided). The only direct connection between the SOHO card and your PC is to the PC power supply. The SOHO card is not connected to the PC data bus or any other interface bus. It cannot interfere with any application you have running on your PC, and it does not use or require any driver. The PC will not even know that the SOHO card is plugged in.*

### The following describes the required connections (see diagram below):

- The Eyeball microphone (or any other microphone supplied by the user) is connected to the SOHO Pink
- The user's PC loudspeakers are connected to the SOHO Green (any one of them – the two green connectors are exactly the same and are interchangeable)
- The Jumper cable with Pink and Blue Jacks connects the SOHO Blue with the PC's soundcard's Pink (Microphone Input if your soundcard's connectors are not color coded)
- The Jumper cable with two Green Jacks connects the SOHO Green (the free one – the two green connectors are exactly the same and are interchangeable)) with the PC's soundcard's Green (Speaker's Out if your soundcard's connectors are not color coded)

