Product Specifications

BOCA
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Product Code: SE1440
Product Name: *SoundExpression 14.4VSp*

The SE1440 provides a digital sound controller for PC sound applications as well as a CD-ROM interface and speaker phone capability, integrated with a 14.4Kbps internal modem for high-speed data and fax communications. This unique design offers multiple functionality all in a single-board solution.

Summary of Audio Features

♦ Integrated sound controller compatible with Sound Blaster Pro, Ad Lib, and Microsoft Windows Sound System

♦ 8- or 16-bit mono and stereo sound

♦ Sample rates up to 44.1KHz

♦ Built-in sound blaster-compatible digital audio processor

♦ Software-configurable I/O address, IRQ, DMA Channel

♦ Software-programmable CD-ROM interface for Sony, Mitsumi, Panasonic, and IDE CD-ROM drives

♦ Software enable/disable of game (joystick) port

♦ Low-cost 16-bit audio

♦ Unique 2-in-1 combination of data communications and audio applications

Summary of Modem Features

♦ **Modem data rate**: 14.4K, 12K, 9600, 7200, 4800, 2400, 1200, or 300bps

♦ **Fax data rate**: 14.4K, 12K, 9600, 7200, 4800, or 2400bps

♦ **Audio data rate**: 11.025K, 7200 samples per second.

♦ **Full-duplex speakerphone**

♦ **Protocol compatibility**: V.32, V.32bis; V.42/MNP2-4 and V.42bis/MNP5 support; V.22, V.22bis; Bell 212A, 103; V.17, V.29, V.27 ter, V.21 channel 2, EIA-578 Service Class 1 and 2 commands.

Physical and Electrical Characteristics

♦Dimensions: 13.4" x 4.2"

♦Power: +5V, 1.2 watts (maximum)

         +/- 12V, 0.5 watts (maximum)

Interfaces and Addresses

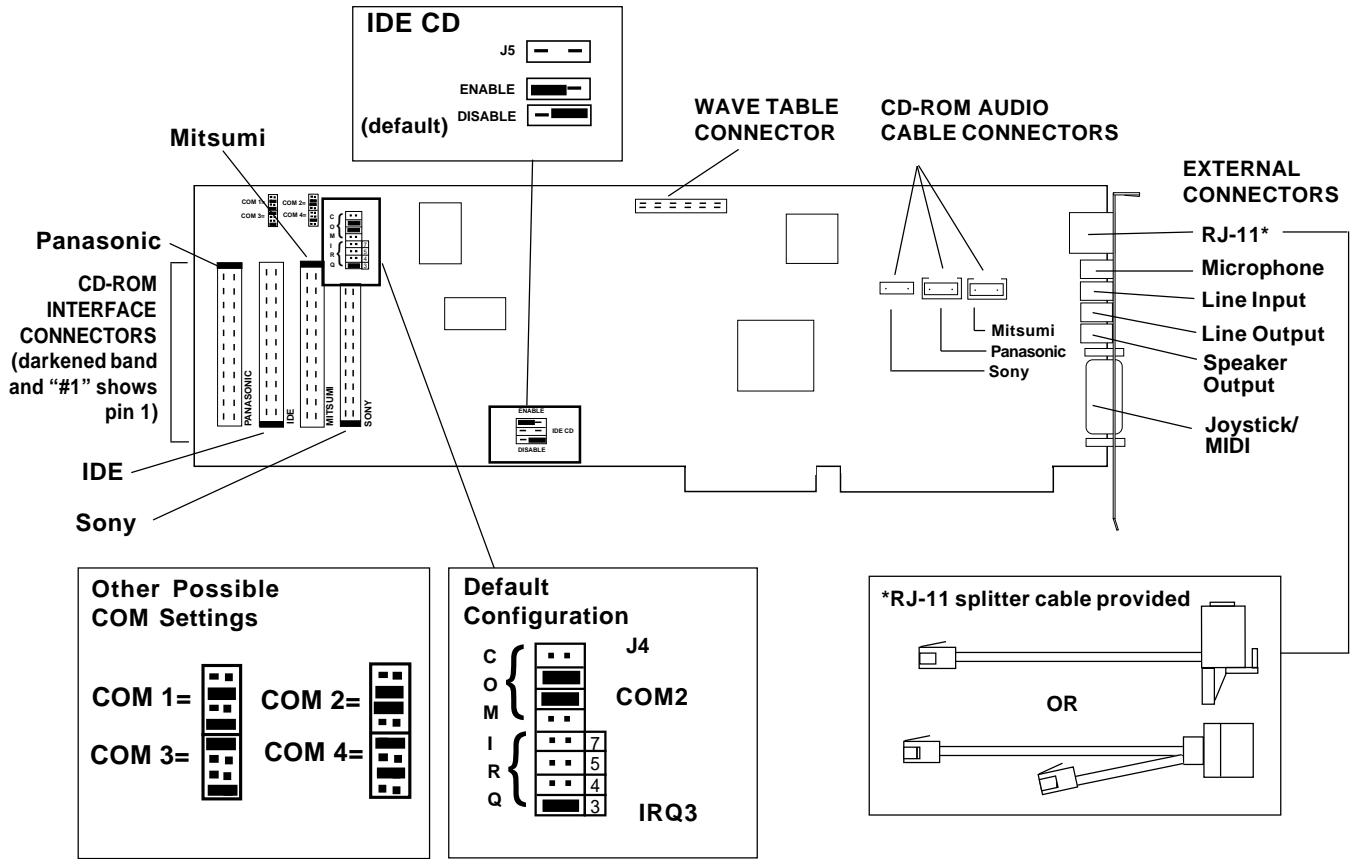| Sound Blaster: Addresses: 220, 240 IRQ: 5, 7, 10 DMA: 0, 1, 3	CD-ROM Addresses: 320, 330, 340, 360 IRQ: 5, 7, 9, 10, 11
Windows Sound System Addresses: 530, E80, F40, 604 IRQ: 7, 9, 10, 11 DMA: 0, 1, 3	IDE CD (only) Address: 170 IRQ: 15
MPU-401 Interface Addresses: 300, 310, 320, 330; IRQ: 2/9, 5, 7	MODEM COM1, 2, 3, 4 IRQ3, 4, 5, 7

Default Configuration

Mode:	Sound Blaster
Interrupt:	5
DMA Channel:	1
I/O Port Address:	220h
CD-ROM interface:	None
Modem:	COM2/IRQ3

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IDE CD

J5

ENABLE

(default) DISABLE

WAVE TABLE CONNECTOR

CD-ROM AUDIO CABLE CONNECTORS

Mitsumi

Panasonic

CD-ROM INTERFACE CONNECTORS (darkened band and "#1" shows pin 1)

EXTERNAL CONNECTORS

RJ-11*
Microphone
Line Input
Line Output
Speaker Output
Joystick/ MIDI

Mitsumi
Panasonic
Sony

COM 1= COM 2=
COM 3= COM 4=

PANASONIC IDE MITSUMI SONY

ENABLE IDE CD DISABLE

IDE

Sony

Other Possible COM Settings

COM 1=   **COM 2=**
COM 3=   **COM 4=**

Default Configuration

C
O J4
M
I COM2
R
Q IRQ3

7
5
4
3

***RJ-11 splitter cable provided**

OR

Software and Documentation Included

Boca Research SE1440 Installation
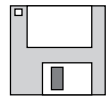
SE1440 Driver and Utilities; (1 diskette)
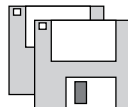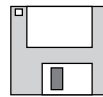
SOUND FEATURES

Midisoft Recording Session
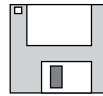
Windows Sound Applications (1 diskette)

MODEM FEATURES

FaxWorks for Windows: Fax, Voice, Data, and Speakerphone (2 diskettes)

Midisoft Sound Impression

Windows Sound Applications (1 diskette)

System Requirements

♦ IBM-compatible computer models 386 DX/33, 486, Pentium
♦ 4MB RAM minimum
♦ VGA or SVGA display
♦ 15MB of free hard disk space for installing software
♦ Windows 3.1 (if you intend to run games and applications in Windows)
♦ DOS 5.0 or later
♦ 15-pin joystick cable or MIDI cable (if running games/MIDI)

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