

## Technical Specifications of the Sound Blaster 16 WaveEffects

Model Numbers:

CT4171

CT4170

The Sound Blaster 16 WaveEffects is a 16-bit ISA Plug and Play audio board shipped with Creative WaveSynth. The Creative WaveSynth is a software based WaveTable Synth which provides additional voices for composition and playback.

CD-Quality, 16-bit Stereo Sound

8- and 16- bit stereo recording and playback

User-selectable sample rates from 5kHz to 44.1 kHz

Gives your PC digital audio recording capabilities that rival professional DAT decks

Full-Duplex Support

Supports Internet communications software

Enables simultaneous record and playback at the same sample rate

3D Audio Technology

Creative 3D Stereo Enhancement Technology expands the spaciousness of sounds in a traditional two-speaker system

Stereo Digital Mixer

Full software control of mixing sources

MIDI Interface

Compatible with Sound Blaster and MPU-401 UART modes

Doubles as a joystick port

Optional MIDI cable required to connect to a MIDI instrument

Technical Specifications

FM Synthesis: Yes

Wave Synthesis: based on CreativeSynth®

Built-In Stereo Power Amplifier: Yes

Built-In Digital/Analog Mixer: Yes

Plug and Play: Yes

CD-ROM Interface: N/A

Hardware Settings

**Note:** all settings are software selectable via Plug and Play.

Interrupt (IRQ): 5, 7, 10

8-bit DMA Channel: 0, 1, 3

16-bit DMA Channel: same as 8bit DMA channel

Joystick I/O Address: 200 Hex

Audio I/O Address: 220, 240, 260, 280 Hex

MPU-401 I/O Address: 300, 330 Hex

FM Synthesizer I/O Address: 388 Hex

Wave Synthesizer I/O Address: 6x0, Ax0, Ex0 Hex

IDE Interface Port: N/A

MPU-401 Port [Enabled] (MFBEN closed), Disabled (MFBEN open)

Connectors

Line-In: Yes

Mic-In: Yes

Line-Out: Yes

PC Speaker-In: Yes

Game/Joystick Port: Yes

CD-ROM Audio-In (Sound Blaster Audio Socket): No

CD-ROM Audio-In (MPC2 Socket): Yes

CSP Chip Socket: No

Wave Blaster Daughter Board Connector: No

External CD-ROM: Not Applicable

Modem Feature Connector: No

SYSTEM REQUIREMENT

#### Requirements for Maximum Functionality

Intel Pentium or AMD K series processor running at 90MHz or faster

16MB system RAM

Windows 9x

Open, half-length 16-bit ISA slot

Self-powered speakers or stand alone amplifier

Dynamic or electret microphone

CD-ROM drive required for software installation on some versions of retail packaging

#### Requirements for Minimum Functionality

486/DX class processor running at 33MHz or faster

8MB system RAM

DOS 5.0, Windows 3.1, or Windows NT

Open, half-length 16-bit ISA slot

Passive speakers or headphones (Gold series requires amplified speakers)

CD-ROM drive required for software installation on some versions of retail packaging