ComX Computers
Product Specification Sheet

XONAR_ESSENCEST/A

Asus Essence ST

Product Overview

Asus Essence ST



Specifications

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Audio Performance	Output Signal-to-Noise Ratio (A-Weighted):
	124dB for Front-out, 117dB for Headphone-out (600ohms) dB
	Input Signal-to-Noise Ratio (A-Weighted):
	118 dB
	Output THD+N at 1kHz:
	0.0003% (-110dB) for Front-out, 0.001% (-100dB) for Headphone-out
	Input THD+N at 1kHz:
	0.0002% (-113dB) for Line-in
	Frequency Response (-3dB, 24-bit/192kHz input):
	Output/Input Full-Scale Voltage
	2 Vrms (5.65 Vp-p)
Bus Compatibility	PCI:
	PCI v2.2 or above bus compatible

Main Chipset	Audio Processor:
	ASUS AV100 High-Definition Sound Processor (Max. 192KHz/24bit)
	24-bit D-A Converter of Digital Sources:
	Texas Instruments PCM1792A*1 for Front-Out (127dB SNR, Max. 192kHz/24bit)
	24-bit A-D Converter for Analog Inputs:
	Cirrus-Logic CS5381* 1 (120dB SNR, Max. 192kHz/24bit)
	High Fidelity Headphone Amplifier:
	Texas Instruments 6120A2*1 (120dB SNR, 100dB THD+N @ Vcc+/-12V, RL=600ohm, f=1kHz)
Sample Rate and Resolution	Analog Playback Sample Rate and Resolution:
	44.1K/48K/96K/192KHz @ 16/24bit
	Analog Recording Sample Rate and Resolution:
	44.1K/48K/96K/192KHz @ 16/24bit
	S/PDIF Digital Output:
	4.1K/48K/96K/192KHz @ 16/24bit, Dolby Digital
	ASIO 2.0 Driver Support:
	Supports 44.1K/48K/96K/192KHz @16/24bit with very low latency
I/O Ports	Analog Output Jack:
	RCA jack *2 (Front R / Front L), 6.30mm jack*1 (Headphone out)
	Analog Input Jack:
	6.30mm jack *1 (Shared by Line-In/Mic-In)
	Other line-level analog input (for CD-IN/TV Tuner):
	ux-In (4-pin header on the card)
	Digital S/PDIF Output:
	High-bandwidth Coaxial/TOS-Link combo port supports 192KHz/24bit
	Front-Panel Header:
	Shared by Headphone out / 2 channels out /
	Microphone in
	S/PDIF Header:
	Connects to compatiable graphic cards for HDMI output

Driver Features	Operation System:
	Windows 7/Vista/XP/MCE2005
	Dolby Technologies:
	Dolby Digital Live
	Dolby Digital Live encodes any audio signal on PC in real-time to Dolby Digital (AC3) 5.1 surround sounds to your home theater environment through one single S/PDIF connection
	Dolby Headphone
	Dolby Headphone technology allows users to listen to music, watch movies, or play games with the dramatic 5.1-channel surround or realistic 3D spacious effects through any set of stereo headphones.
	Dolby Virtual Speaker
	Dolby Virtual Speaker technology simulates a highly realistic 5.1-speaker surround sound listening environment from as few as two speakers.
	Dolby Pro-Logic II
	Dolby Pro-Logic II is the well-known technology to process any native stereo or 5.1-channel audio into up to 6.1 channel output, creating a seamless, natural surround soundfield.
	Smart Volume Normalizer:
	Smart Volume Normalizer
	Normalizes the volume of all audio sources into a constant level and also enhances your 3D sound listening range and advantages in gaming
	Xear 3D Virtual Speaker Shifter:
	Virtual 7.1 speaker positioning
	Karaoke Functions:
	Music Key-Shifting and Microphone Echo effects like professional Karaoke machine
	FlexBass:
	Professional Bass Management/Enhancement system
	3D Sound Engines/APIs:
	Vista: DirectSound3D GX 2.5, DirectSound HW, DirectSound SW, A3D1.0, OpenAL generic modes, 128 3D sounds processing capability
	XP: DirectSound2.5 SW, A3D1.0, OpenAL generic modes, 128 3D sounds processing capability
	VocalFX:
	the latest vocal effect technologies for gaming and VoIP, including: -VoiceEX: produces vivid environmental reverberation for your voice in EAX games -ChatEX: emulates different background environment effects when you chat online -Magic Voice: changes your voice pitch to different types (Monster/Cartoon?) for disguising your real voice or just for fun in online chatting
Accessories	1 x S/PDIF optical adaptors
	1 x 6.3mm to 3.5mm stereo adapter
Size (Width x Height)	106.65 x 168.26mm

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx-computers.co.za/XONAR_ESSENCEST-A-Asus-Essence-ST-p-39000.php

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