

DVS-302

Embedded/Mobile Digital Platform with MPEG Hardware Codec Engine

NEW



Features

- 2-channel real-time video/audio capture and codec engine
- Anti-vibration, anti-shock design to ensure maximum reliability
- Fanless design within sealed construction
- 2-channel codec supporting full-motion video @ D1 resolution
- x86 architecture for easy application development & integration
- 4 isolated digital input and relay output
- SDK supports Windows 2000/XP with VC++ sample code

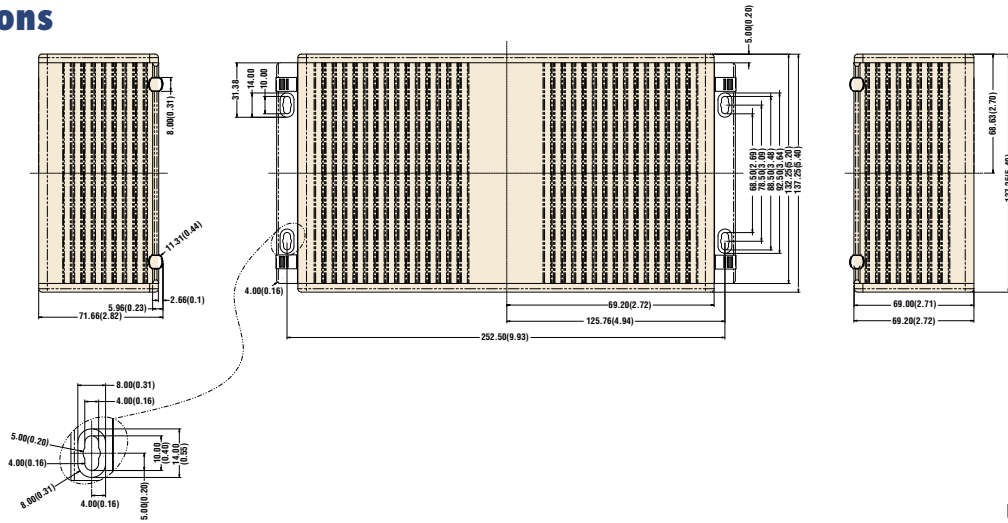
Introduction

The DVS-302 is an embedded/mobile digital video system that provides the digital video market with a perfect solution for applications in harsh environments. The DVS-302 is an industrial grade PC-based system that supports 2-channel full-motion simultaneous video/audio capture and compression/decompression. Two high performance hardware MPEG-1/2/4 codecs each provide video at D1 resolution with 30/25 fps and MPEG-1 Layer II audio. The x86 open platform eases application software integration for high quality embedded video applications such as digital video surveillance, video conferencing, digital signage, set-top-box and IP video. It is ideally designed for installation in any mission-critical environment with its fanless, anti-vibration and anti-shock protection.

Specifications

		DVS-302-25MOE
Video Capture	Video Standard	Composite for NTSC/PAL
	Video Input	2 (BNC connector)
	Capture Resolution	D1/VGA/QVGA/CIF
	Total Frame Rate (NTSC/PAL)	60/50 fps
	Image Processing	Hardware adjustment of hue, contrast, saturation, and brightness
Audio System	Data Output Format	Multiple YCrCb, RGB, and YUV planar formats supported
	Audio Input	2 stereo inputs
	Audio Output	2 stereo outputs
Software Development Kit	Audio Encoding	MPEG-1 Layer II
	Operating System	Supports Microsoft Windows® XP with SP2, XP embedded and Win2000 with SP4
	DirectX Support	Version 9 or above
	Demo Program	Complete demo program with VC++ sample code for reference
Processor System	Function	Video capture, preview, DIO control, encoding and decoding
	CPU	Intel® Celeron® ULV 600 MHz
	L2 Cache	512 KB
	Chipset	Intel 855GME GMCH ICH4 chipset
Memory	Technology	ECC DDR 200/266/333 modules
	Max. Capacity	1 GB
	Socket	200-pin SODIMM
Graphic	Chipset	Chipset integrated VGA controller
	Memory Size	Shared system memory up to 64 MB
	Resolution	Up to 1600 x 1200 @ 85 Hz and 2048 x 536 @ 75 Hz
Ethernet	Interface	10/100Base-T
	Controller	Intel 82551ER
	Connector	RJ-45
Storage	IDE-0	Drive bay space for 2.5" HDD
	IDE-1	CompactFlash socket for type I/II
I/O Interface	VGA	1 (D-sub 15-pin)
	USB	3 (USB 2.0, 480 Mbps)
	Serial	COM1: RS-232; COM2: RS-485/RS-422
	Audio System	AC97 (line-in, line-out, mic-in)
	LAN	1 (RJ-45)
	PS/2	1 (keyboard and mouse with Y cable)
	DIO	4 x Isolated DI and 4 x Relay DO
	Watchdog Timer	Output
Video/Audio I/O	Interval	Programmable 1 ~ 255 sec.
	Stereo Audio Input	D-sub 15-pin to BNC x 6
	Stereo Audio Output	D-sub 15-pin to BNC x 6
Power Requirement	Management	APM 1.2, ACPI supported
	Power Consumption	Average 12 W
	Power Adapter	12 V DC ~ 24 V DC, Typical 12 V DC @ 4.5 A, 16 V DC @ 3.4 A, 19 V DC @ 2.9 A, 24 V DC @ 2.3 A

Dimensions



Environment	Temperature	-10 – 45° C, Operating
	Humidity	-95% @ 40° C (non-condensing), Operating
	Vibration Resistance	1 Grms, IEC 60068-2-64, Random, 5 – 500 Hz, 1 Oct/min, 1 hr/axis., Operating
	Shock Resistance	20 G, IEC 60068-2-27, half sine, 11 ms, Operating
Physical Characteristics	Construction	Aluminum housing
	Mounting	Din-Rail mounting and desk / wall mounting
	Dimensions (W x H x D)	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.4")
	Weight	2.1 kg (4.62 lb)

Ordering Information

Part Number	Video Inputs/Outputs	CPU	L2 Cache
DVS-302-25MOE	2/2	Intel ULV Celeron M 600 MHz	512 KB

*Total frame rate for DVS-302-25MOE is 60 fps (NTSC) / 50 fps (PAL)
 Note: HD and RAM are not included in all models

Optional Items

2.5" Hard Drive Options

Part Number	RPM	Type	Capacity
96ND40G-I-HI4K	4200	IDE Parallel-ATA	40 GB
96ND60G-I-FJ4K1	4200	IDE Parallel-ATA	60 GB
96ND80G-I-HI4K	4200	IDE Parallel-ATA	80 GB

Power Adapter Options

Part Number	Description
1757000222	AC-to-DC Adapter DC 19 V / 3.42 A / 65 W with Phoenix Power Plug

Power Cord Options

Part Number	Description
1700001947	2P 180 cm, USA
1700001948	2P 180 cm, Europe
1700001949	2P 180 cm, UK

RAM Options

Part Number	Speed	Type	Capacity
96SD-256M266NN-TR	DDR266	200 Pin DDR-SODIMM	256 MB
96SD-256M266E-TR	DDR266	200 Pin DDR-SODIMM ECC	256 MB
96SD-512M266NN-TR1	DDR266	200 Pin DDR-SODIMM	512 MB
96SD-512M266NN-TR2	DDR266	200 Pin DDR-SODIMM	512 MB
9680000994	DDR333	200 Pin DDR-SODIMM	512 MB
96SD-1G333NN-TR	DDR333	200 Pin DDR-SODIMM	1 GB

Industry-grade Compact Flash Card Options

Part Number	Capacity	Operation Temperature
96FMCFI-512M-ET-TR	512 MB	-40° C (-40° F) ~ 85° C (185° F)
96FMCFI-1G-ET-TR	1 GB	-40° C (-40° F) ~ 85° C (185° F)

Packing List

Part Number	Description	Quantity
1997001110	DIN-rail mounting accessory	X 1
1997001120		
1997001130		
1997001140		
2062S30200	Utility CD	X 1
1700001394	DC Jack with 2-pin pluggable terminal block	X 1
1652000180	Pluggable terminal block for DI and DO	X 2
1700060202	Y cable of KB and PS/2 Mouse	X 1
1700002014	Video/Audio Cable (D-sub 15P to BNC x 6)	X 2

