

DVS-300

Embedded/Mobile Digital Video Platform



Features

- Up to 16 channel composite inputs that can share a total frame rate of 120/100 fps, up to VGA resolution
- Anti-vibration, anti-shock design to ensure maximum reliability
- Fanless design within sealed construction
- 4 Conexant Fusion 878A video capture chip
- x86 architecture for easy application development & integration
- Wide power source (12 ~ 24 V DC)
- 4 isolated DI and 4 relay DO

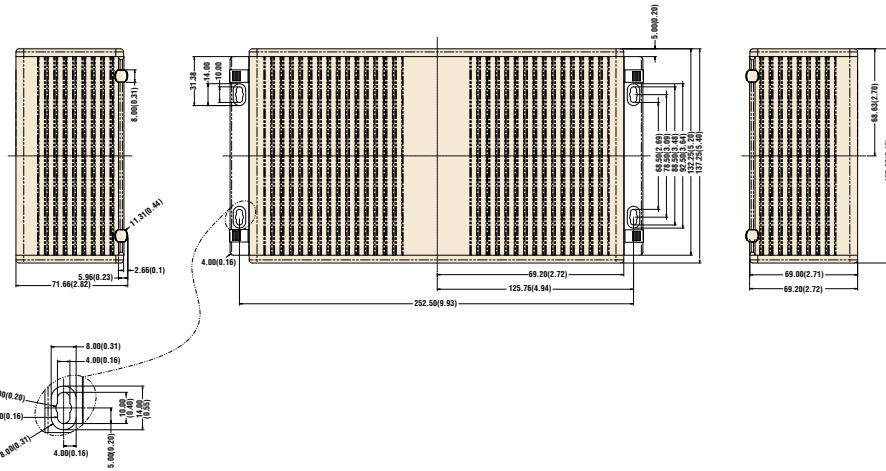
Introduction

The DVS-300 is an Embedded/Mobile digital video system that provides the digital video market with a perfect solution for applications in harsh environments. The DVS-300 is the smallest industrial grade PC-based system that supports 16 camera inputs. The x86 open platform eases application software integration. It is well-designed for installation in any mission-critical environment with its fanless, anti-vibration and anti-shock protection.

Specifications

		DVS-300-S1E	DVS-300-M0E	DVS-300S-M0E
Video system	Video Standard	Composite for NTSC/PAL		
	Video Input	4 ~ 16	4 ~ 16	1 ~ 4
	Capture Resolution	Up to VGA resolution - 640 x 480 (NTSC) / 640 x 576 (PAL)		
	Total Frame Rate (NTSC/PAL)	120/100 fps		
	Image Processing	Hardware adjustment of hue, contrast, saturation, and brightness		
Software Development Kit	Data Output Format	YUY2 planar formats supported		
	Operating System	Supports Microsoft Windows® XP with SP2, XP embedded and Win2000 with SP4		
	DirectX Support	Version 9 or above		
	Demo Program Function	Complete demo program with VC++ sample code for reference Video capture, preview, DIO control, encoding and decoding		
Processor System	CPU	Pentium M LV 1.1 GHz	Intel Celeron ULV 600 MHz	Intel Celeron ULV 600 MHz
	L2 Cache	1 MB	512 KB	No L2 cache
	Chipset	Intel 855GME GMCH ICH4 chipset	Intel 855GME GMCH ICH4 chipset	Intel 852GM GMCH ICH4 chipset
	BIOS	AWARD 4 Mbit BIOS		
	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	10/100 Base-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, 480Mbps)		
	Serial	COM1: RS-232; COM2: RS-485/RS-422		
	Audio	AC97 (line-in, line-out, mic-in)		
	LAN	1 (RJ-45)		
	PS/2	1 (Keyboard and Mouse with Y cable)		
	DIO	4 Isolated DI and 4 Relay DO		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1 ~ 255 sec.		
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



Unit: mm (inch)

Environment	Temperature	-15 ~ 45° C, Operating
	Relative 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 kg (4.4 lb)

Ordering Information

Part Number	Video Inputs	CPU	L2 Cache
DVS-300-S1E	4 ~ 16 channels	Intel LV Pentium M 1.1 GHz	1 MB
DVS-300-M0E	4 ~ 16 channels	Intel ULV Celeron M 600 MHz	512 KB
DVS-300S-M0E*	1 ~ 4 channels	Intel ULV Celeron M 600 MHz	No L2 Cache

*Total frame rate for DVS-300S-M0 is 30 fps (NTSC) / 25 fps (PAL)

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

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		
1997001120	DIN-rail mounting accessory	X 1
1997001130		
1997001140		
2062S30000	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
1700001618	Video Cable (D-sub 15P to BNC)	X 2 for DVS-300-M0/S1 X 1 for DVS-300S-M0

