

DVS-350M

Embedded/Mobile Digital Video Platform with 2.5" HDD



Features

- Up to 16 channel composite inputs that can share a total frame rate of 120/100 fps
- Anti-vibration, anti-shock design to ensure maximum reliability
- Fanless design within sealed construction
- x86 architecture for easy application development & integration
- TV-OUT and WLAN module support
- Wide power source (9 ~ 30 V DC)
- CardBus interface for optional mobile communication module
- Supports Windows 2000/XP with driver and SDK

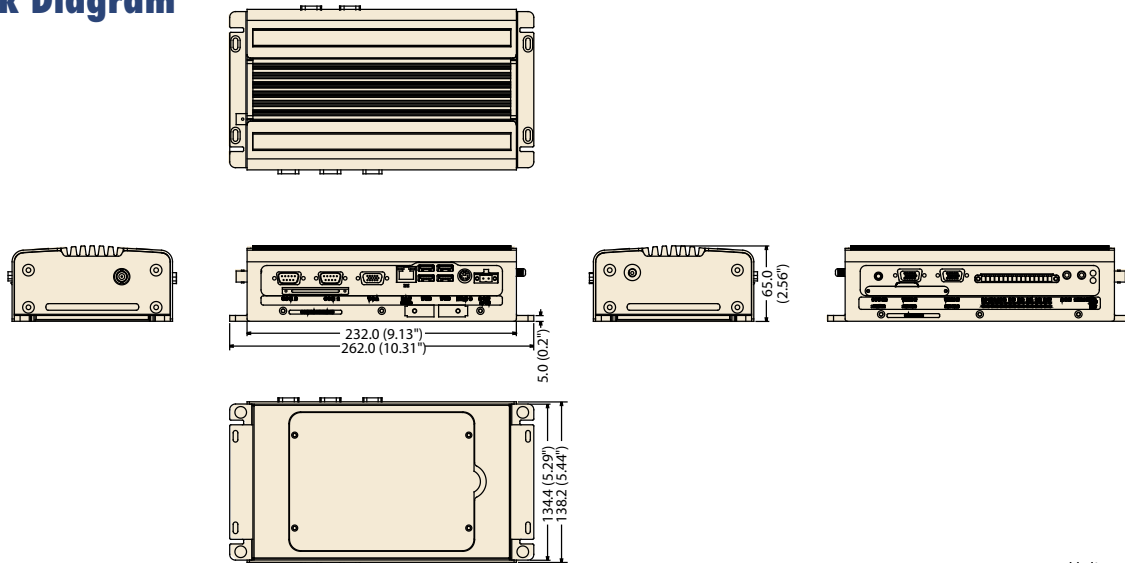
Introduction

The DVS-350 series provide the digital video market with a perfect solution for applications in harsh environments. The DVS-350 series are the smallest industrial grade PC-based systems that support 4-16 camera inputs. The x86 open platform eases application software integration. They are designed for installation in any mission-critical environment with their fanless, anti-vibration and anti-shock protection. A wide power range of 9 to 30 V DC can protect these systems from power surges while used on vehicles. Among the whole series, the DVS-350M comes with the highest cost/performance value. These features combined with TV-OUT, WLAN, isolated DI and relay DO, make the DVS-350 series the best solutions for embedded/mobile applications.

Specifications

	Part Number	DVS-350-25S4E	DVS-350-25M0E
Video System	Video Standard	Composite for NTSC/PAL	
	Video Input	4 ~ 16 channels share a total of 120 fps	
	Encoding	Up to 120 fps @ CIF resolution with software encoding	
	Capture Resolution	Up to D1 resolution: 720 x 480 (NTSC) / 768 x 576 (Full PAL)	
	Total Capture Frame Rate (NTSC/PAL)	120/100 fps	
	Image Processing	Hardware adjustment of hue, contrast, saturation, and brightness	
	Data Output Format	YUY2 planar formats supported	
Software Development Kit	Operating System	Supports Microsoft Windows® XP with SP2, Windows XP Embedded and Windows 2000 with SP4	
	DirectX Support	Version 9 or above	
	Demo Program	Complete demo program with VC++ sample code for reference	
	Function	Video capture, preview, DIO control, encoding and decoding	
Processor System	CPU	Intel® Pentium® M LV 1.4 GHz	Intel Celeron M ULV 600 MHz
	Chipset	Intel 852GME/ICH4	
	L2 Cache	2 MB	512 KB
	BIOS	AWARD 4 Mbit BIOS	
Memory	Technology	DDR 200/266/333 modules, ECC support	
	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	
	TV-OUT	Composite out (BNC type)	
Ethernet	Interface	10/100Base-T	
	Controller	Intel 82551QM	
	Connector	RJ-45	
	WLAN	802.11b/g	
Storage	IDE-0	2.5" HDD Tray	
	IDE-1	Type I/II CompactFlash socket	
	TV-OUT	1 Composite Out with BNC connector	
I/O Interface	VGA	1 (D-sub 15-pin)	
	LAN	1 (RJ-45)	
	USB	4 (USB 2.0, 480 Mbps)	
	Audio	AC97: LINE-OUT, MIC-IN	
	Serial	COM1: RS-232; COM2: RS-485/RS-422	
	PS/2	1 (keyboard and mouse with Y cable)	
	DIO	5 Isolated DI, 2 Relay DO, 1 Remote SW control	
	MiniPCI	1 (for Integrated WLAN module)	
	CardBus	1 slot	
	Power Switch	External Power Switch Connector	

Block Diagram



Unit: mm (inch)

Power Requirement	Management	APM 1.2, ACPI supported
	Power Consumption	Average 15 W
	Power Adapter	9 ~ 30 V DC, Typical 9 V DC @ 5.4 A, 19 V DC @ 2.9 A
Watchdog Timer	Output	Interrupt, system reset
	Interval	Programmable 1 ~ 255 sec.
Physical Characteristics	Construction	Aluminum housing
	Mounting	Din-Rail mounting and desk / wall mounting
	Dimensions (W x H x D)	232.0 x 65.0 x 138.4 mm (9.1" x 2.5" x 5.4")
	Weight	2.3 kg (5.06 lb)
Environment	Temperature	Operating: -10 ~ 45° C
	Relative Humidity	Operating: 95% @ 40° C (non-condensing)
	Vibration Resistance	Operating: 1 Grms, IEC 60068-2-64, Random, 5 ~ 500 Hz, 1 Oct/min, 1 hr/axis
	Shock Resistance	Operating: 20 G, IEC 60068-2-27, half sine, 11 ms

Ordering Information

Part Number	HDD Support	Video Inputs	CPU	Memory	L2 Cache
DVS-350-25S4E	2.5" HDD Tray	4 ~ 16 channels	Intel Pentium M LV 1.4 GHz	N/A	2 MB

* DVS-350-25M0E; Intel Celeron M ULV 600 MHz with 512 MB L2 cache is available upon request

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

Industrial-grade CompactFlash 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	Qty
2013000000	1 year warranty card	X 1
2062S35000	Driver CD	X 1
1700001394	DC Jack with 2-pin pluggable terminal block	X 1
1652000209	Pluggable terminal block for DI and DO	X 1
1700060202	Y cable of KB and PS/2 Mouse	X 1
1700001618	Video Cable (D-sub 15P to BNC)	X 2