

DVS-355M

Embedded/Mobile Digital Video Platform with Intel® Core™ Duo Mobile Processor



Features

- Up to 6 channel composite inputs that can share a total frame rate of 60/50 fps
- Fanless design within sealed construction
- Supports Intel® Core™ Duo Mobile Processor
- x86 architecture for easy application development & integration
- Anti-vibration, anti-shock design to ensure maximum reliability
- Wide input range power source (9 ~ 30 V DC)
- Supports Windows® 2000/XP with driver and SDK

Introduction

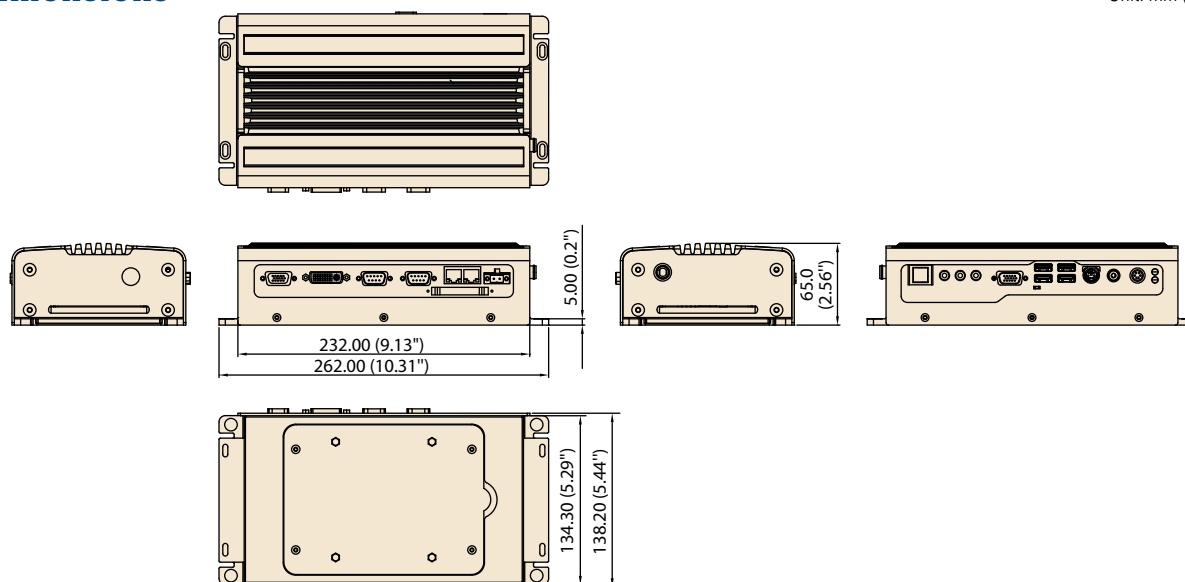
The DVS-355M provides the digital video market with a perfect solution for applications in harsh environments. The DVS-355M is the smallest industrial grade PC-based system that supports 6 camera inputs. The x86 open platform eases application software integration. Its fanless, anti-vibration, and anti-shock design make it suitable for mission-critical installations in demanding environments. A wide acceptable power range of 9 to 30 V DC protects the system from power surges when used in vehicles. These features, combined with TV-OUT, WLAN, and a CardBus interface, make the DVS-355M a great solution for embedded/mobile applications.

Specifications

Video System	Video Standard	Composite for NTSC/PAL
	Video Input	6 channels share a total of 60 fps
	Encoding	Up to 60 fps at D1 resolution with software encoding
	Capture Resolution	Up to D1 resolution - 720 x 480 (NTSC) / 768 x 576 (Full PAL)
	Total Capture Frame Rate	60/50 fps (NTSC/PAL)
	Image Processing	Hardware adjustment of hue, contrast, saturation, and brightness
Processor System	Data Output Format	YUY2 planar formats supported
	CPU	Intel Core Duo U2500 1.2 GHz Mobile Processor
	Chipset	Intel 945GME / ICH7M-DH
	L2 Cache	2M
	BIOS	AWARD 4-Mbit BIOS
	Front Side Bus	667 MHz
Memory	Technology	Dual channel DDR2 533/667
	Max. Capacity	2 GB
	Socket	2 x 200-pin SODIMM
Graphics	Chipset	Intel Graphics Media Accelerator 950
	Memory Size	Shared system memory up to 224 MB
	Resolution	Up to 2048 x 1536 at 75 Hz
Ethernet	Interface	Gigabit LAN Controller
	Controller	Marvell 88E8053
	Connector	2 x RJ-45
Storage	SATA	2.5" HDD Tray
	IDE-1	CompactFlash socket for type I/II
I/O Interface	DVI	1 (DVI - I connector , digital signal output only)
	VGA	1 (D-sub 15-pin)
	LAN	Dual Gigabit LAN (RJ-45)
	USB	4 (USB 2.0 compliant, 480Mbps)
	Audio	AC97 - Line-out, Mic-in, Line-in
	Serial	COM1 - RS-232, COM2 - RS-232
	PS/2	1 (For keyboard and mouse with Y cable)
	Mini-PCI	1 (For Integrated WLAN module)
Power Requirements	TV Out	S-video and Composite video
	Management	APM 1.2, ACPI supported
	Power Consumption	Average 15 W, Maximum 49 W
	Input Voltage	9 ~ 30 V _{DC} , Typical 9 V _{DC} @ 5.4 A, 19 V _{DC} @ 2.9 A
	Others	Support Boot on Power failure and schedule boot up function
Watchdog Timer	Output	Interrupt, system reset
	Interval	Programmable 1 ~ 255 sec.

Dimensions

Unit: mm (inch)



Specifications Cont.

Physical Characteristics	Mounting	DIN-rail mounting and desk / wall mounting
	Dimensions (W x H x D)	232 x 65 x 138.4 mm (9.1" x 2.5" x 5.4")
	Weight	2.3 kg / 5.07 lb
Environment	Temperature	-10 ~ 45° C (14 ~ 113° F), Operating
	Temperature (with industrial grade components)	-15 ~ 55° C (5 ~ 131° F), Operating
	Relative Humidity	95% @ 40° C (non-condensing), Operating
	Vibration Resistance	1 Grm, IEC 60068-2-64, Random, 5-500 Hz, 1 Oct/min, 1hr/axis
	Shock Resistance	40 G, IEC 60068-2-27, half sine, 11 ms, Operating
Software Development Kit	Operating System	Supports Microsoft Windows XP with SP2, XP Embedded and Win 2000
	Demo Program	Complete demo program with VC++ sample code for reference

Ordering Information

IDE Interface

Part Number	Memory	WLAN	Video Input
DVS-355-MU25E	-	-	6 channels
DVS-355-ZU25E	-	802.11 b/g	-
DVS-355-SU25E	-	-	-

SATA Interface

Part Number	Memory	WLAN	Video Input
DVS-355-MU25SE	-	-	6 channels

Optional Items

Power Adapter Options

Part Number	Description
1757000222	AC-to-DC Adapter 2-pin DC 19 V/3.42 A/65 W, with Phoenix Power Plug
9689000450	AC-to-DC Adapter 3-pin DC19V/3.16A/ 60W

Power Cord Options

Part Number	Description
1700001947	2-pin 180 cm, USA
1700001948	2-pin 180 cm, Europe
9689071001	3-pin 180 cm, USA
9689071002	3-pin 180 cm, Europe

Industrial-Grade CompactFlash Card Options

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

Packing List

Part Number	Description	Qty
2013000000	2 year warranty card	x 1
2062S35000	Driver CD	x 1
1700001394	DC Jack with 2-pin pluggable terminal block	x 1
1700060202	Y cable for KB and PS/2 Mouse	x 1
1700005791	Video In Cable D-Sub to BNC (DVS-355-MU25E only)	x 1