DVS-350F

Large Capacity Embedded/Mobile Digital Video Platform with 3.5" HDD



Features

- Up to 16 channel composite inputs that can share a total frame rate of 120/100 fps
- Anti-vibration, anti-shock and fanless design to ensure maximum reliability
- 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
- Swappable HDD for easy integration and data transfer
- Supports Windows 2000/XP with driver and SDK



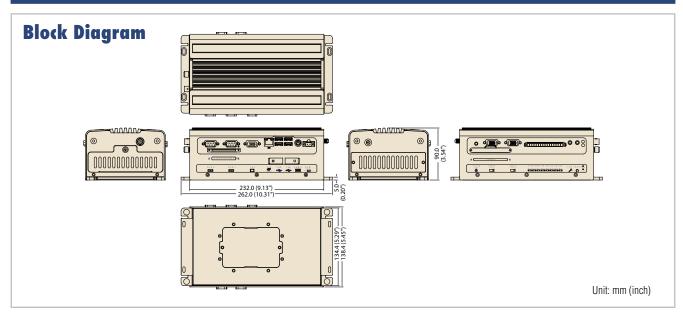
Introduction

The DVS-350 series provide the digital video market with a perfect solution for applications in harsh environments. The DVS-350 is the smallest industrial grade PC-based system that supports 4-16 camera inputs. The x86 open platform eases application software integration. It is designed for installation in any mission-critical environment with its fanless, anti-vibration and anti-shock protection. A wide power range of 9 to 30 V DC can protect the system from power surges while used on vehicles. Among the whole series, the DVS-350F contains a swappable HDD which offers easy video data transferring and capacity integration. These features combined with TV-OUT, WLAN, isolated DI and relay DO, make the DVS-350 the best solution for embedded/mobile applications.

Specifications

•	Part Number	DVS-350-35S4E DVS-350-35M0E
	Video Standard	Composite for NTSC/PAL
Video System	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
	Operating System	Supports Microsoft Windows® XP with SP2, Windows XP Embedded and Win2000 with SP4
Coffware Davidonment Kit	DirectX Support	Version 9 or above
Software Development Kit	Demo Program	Complete demo program with VC++ sample code for reference
	Function	Video capture, preview, DIO control, encoding and decoding
	CPU	Intel® Pentium® M LV 1.4 GHz Intel Celeron M ULV 600 MHz
Dragger Custom	Chipset	Intel 852GME / ICH4
Processor System	L2 Cache	2 MB 512 KB
	BIOS	AWARD 4 Mbit BIOS
	Technology	DDR 200/266/333 modules, ECC support
Memory	Max. Capacity	1 GB
•	Socket	200-pin SODIMM
	Chipset	Chipset integrated VGA controller
Cropbia	Memory Size	Shared system memory up to 64 MB
Graphic	Resolution	Up to 1600 x 1200 @ 85 Hz and 2048 x 536 @ 75 Hz
	TV-OUT	Composite out (BNC type)
	Interface	10/100Base-T
Ethernet	Controller	Intel 82551QM
LUIGITIGU	Connector	RJ-45
	WLAN	802.11b/g
Storage	IDE-0	Swappable 3.5" HDD Tray with integrated fan
Storage	IDE-1	Type I/II CompactFlash socket
	TV-OUT	1 Composite Out with BNC connector
	VGA	1 (D-sub 15-pin)
	LAN	1 (RJ-45)
	USB	4 (USB 2.0, 480 Mbps)
	Audio	AC97: LINE-OUT, MIC-IN
I/O Interface	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

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Power Requirement	Management	APM 1.2, ACPI supported
	Power Consumption	Average 36 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
watchuog filler	Interval	Programmable 1 ~ 255 sec.
	Construction	Aluminum housing
Dhysical Characteristics	Mounting	Din-Rail mounting and desk / wall mounting
Physical Characteristics	Dimensions (W x H x D)	232.0 x 90.0 x 138.4 mm (9.1" x 3.5" x 5.4")
	Weight	2.9 kg (6.38 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-350-35S4E	3.5" Swappable Tray	4 ~ 16 channels	Intel Pentium M LV 1.4 GHz	N/A	2 MB

^{*} DVS-350-35M0E; Intel Celeron M ULV 600 MHz with 512 MB L2 cache is available upon request

Optional Items

3.5" Hard Drive Options

Part Number	RPM	Туре	Capacity
96HD80G-I-SG7K3	7200	IDE Parallel-ATA	80 GB
96HD120G-I-SG7K1	7200	IDE Parallel-ATA	120 GB
96HD160G-I-SG7K1	7200	IDE Parallel-ATA	160 GB
96HD200G-I-SG7K1	7200	IDE Parallel-ATA	200 GB

Power Adapter

Part Number	Description
1757000222	AC-to-DC Adapter DC 19V / 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

HDD Upload Station Options

Part Number	Description
DVA-222	HDD Upload Station for DVS-350-35M0E/S4E

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-FT-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

Swappable lockable HD -

