

DVS-510

1U Compact Size Digital Video Platform



Features

- Supports Intel® Core™ Duo and Core™ Solo mobile Processors
- 4-channel PCIe video input with D1 and 120/100 FPS
- Supports Video Loop through function
- 6 inputs and 7 outputs for GPIO alarm
- Dual Display support among VGA, DVI and TV-OUT
- Supports Windows® 2000/XP with drivers and SDK

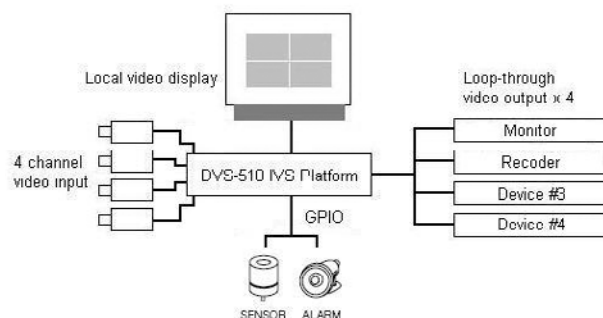
Introduction

The DVS-510 is a PC-Based Digital Video platform built into a 1U, compact industrial grade chassis. The platform integrates four Conxant BT-878 video capture chips with a PCIe interface that supports 4D1 and 100/120 full frame rates. The Intel Core Duo technology gives it excellent computing power for video encoding, streaming, or intelligent video analysis. The addition of 4-channel loop through video, dual Giga LAN, and GPIO make it the ideal platform for an intelligent video surveillance box (IVS BOX), high-end video server, Network Video Recorder (NVR), POS integrated DVR, signage integrated DVR, or any other advanced video-integrated application.

Specifications

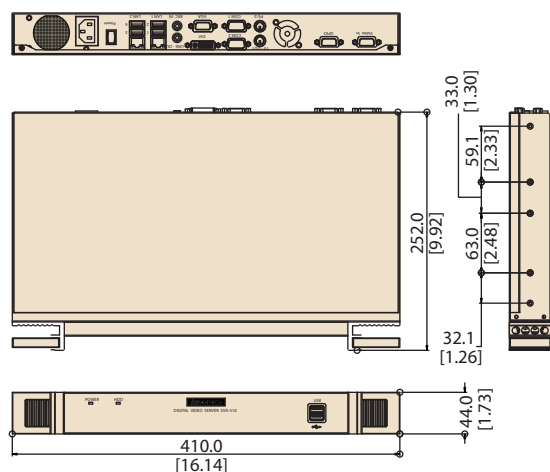
CPU	Supports Intel μFC-PGA 478 Core Duo/Celeron M with 65nm process technology
FSB	400/533/667 MHz
System Chipset	Intel 945 GM Intel ICH7M-DH
Video input	D-Sub connector with 4-channel video inputs and 4 video loop through outputs
Memory	Dual channel memory architecture 2 x SO-DIMM. 2GB DDR2 667/533/400 non-ECC, unbuffered memory
HDD interface	One Enhanced IDE interface supports up to 2 IDE devices. Ultra DMA 100 mode up to 100 MB /sec. 2 SATA ports support up to 150 MB/sec.
Serial ports	2 serial ports; COM1: RS-232, COM2: RS-232/422/485
USB	6 USB 2.0 compliant (front panel x2 and rear panel x4)
Keyboard/Mouse connector	6-pin miniDIN connector for PS/2 Keyboard connector
GPIO	15-bit GPIO; D-Sub connector with 6 inputs and 7 outputs
VGA/LCD Interface	Intel Graphics Media Accelerator 950
DVI	1 Digital DVI
TV out	Supports composite video output
Dual Display Combination	VGA; DVI; TV out
Ethernet Interface	Dual Marvell 88E8053 PCIe Gigabit LAN Controller, featuring AI NET2
Audio Interface	AC97 2.3 compliant
Mini PCI	1
External I/O connector	1 x VGA; 1 x DVI; 1 x TV-out 2 x COM1 x mini DIN PS/2 connector for Keyboard and mouse 1 x MIC IN; 1 x LINE out 2 x RJ452 x USB 2.0/1.1 (front panel) 4 x USB 2.0/1.1 (rear panel) 1 x Video IN (D-Sub connector) 1 x GPIO (D-Sub connector)
Operating temperature	-15° C ~ 50° C (5 ~ 122° F)
External Power Terminal	ATX power connector
Software OS support	Windows 2000, XP Windows CE.Net 5.0, XPe, Linux
Vibration	0.002G²/Hz, 1 Grms, 5-500Hz
Dimensions (W x H x D)	410 x 44 x 252 mm (16.14" x 1.73" x 9.92")
Certificate	CE / FCC part 15 Class A / UL

Application Reference for Intelligent Video Surveillance



Dimensions

Unit: mm (inch)



Ordering Information

Part Number	HDD Support	Video Input	CPU Support
DVS-510-35IKE	3.5" HDD Tray	4	Intel 478-pin Micro FCPGA Core Duo/Celeron M up to 2.0 GHz

Optional Items

CPU

Part Number	Description	TDP	FSB	L2
96MPDM-20F6-2M4T	Core Duo T2500 2 GHz, 478-pin Micro FCPGA	31.0W	667 MHz	2 MB
96MPDM-18F6-2M4T	Core Duo T2400 1.83 GHz, 478-pin Micro FCPGA	31.0W	667 MHz	2 MB
96MPDM-16F6-2M4T	Core Duo T2300 1.66 GHz, 478-pin Micro FCPGA	31.0W	667 MHz	2 MB
96MPSM-16F6-2M4T	Core Solo T1300 1.66 GHz, 478-pin Micro FCPGA	27.0W	667 MHz	2 MB

Memory

Part Number	Description	Clock
96SD2I-512M66NN-AP	512 MB SODDR2 200P 64 x 8 I GRD(G)	667 MHz
96SD2I-1G667NN-AP	1 GB SODDR2 200P 64 x 8 I GRD(G)	667 MHz
96SD2I-512M53NN-AP	512 MB SODDR2 200P 64 x 8 I GRD(G)	533 MHz
96SD2I-1G533NN-TR	1 GB SO-DDR2200P 64 x 8 I GRD(G)	533 MHz

Power Cord

Part Number	Description
1702002600	POWER Cable UL/CSA (USA) 180D 125V10A 1.83M
1702002605	POWER CABLE 90D 220VEUROPEAN 250V/6A (FRANCE)1.8M

CPU Load Performance

4 channel video encoding and preview

Display Resolution	Frames Per Second	30	15	10
	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB
D1 (720 x 480)	-	60% ~ 70%	-	-
VGA (640 x 480)	-	55% ~ 65%	-	-
QVGA (320 x 240)	25% ~ 35%	-	-	-
SubVGA (160 x 120)	5% ~ 15%	-	-	-

2 channel video encoding and preview

Display Resolution	Frames Per Second	30	15	10
	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB
D1 (720 x 480)	60% ~ 70%	-	-	-
VGA (640 x 480)	55% ~ 65%	-	-	-
QVGA (320 x 240)	-	-	-	-
SubVGA (160 x 120)	-	-	-	-

1 channel video encoding and preview

Display Resolution	Frames Per Second	30	15	10
	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB	Core Duo 2.0 Ghz/2 MB
D1 (720 x 480)	30% ~ 40%	-	-	-
VGA (640 x 480)	25% ~ 35%	-	-	-
QVGA (320 x 240)	-	-	-	-
SubVGA (160 x 120)	-	-	-	-