

DVMB-764

16 CH D1 480 FPS MPEG4 Hardware Encoding ATX Main Board with Intel® Q965 Platform

NEW



CE FCC

Features

- 16 Channel D1 480 FPS MPEG4 Hardware Encoding on board
- 16 Channel Audio Encoding on board
- Intel Q965 533/800/1066 MHz FSB
- Dual video stream MPEG4 , MJPEG
- Integrates with 12 DI, 8DO and 2 RS-485
- Supports 6 SATA HD with RAID 0, 1, 5
- Supports Dual GbE Ethernet LAN
- 1 x PCI-E x16, 1 x PCI-E x4 and 1 x PCI
- Supports Windows® 2000/XP driver and video development SDK
- All solid capacitor design

Introduction

DVMB-764 is a high performance video surveillance main board built with Intel Q965 Core 2 duo/Quad Core platform and 16 channel MPEG4 hardware encoding engine. It supports 16 channel video encoding at D1 resolution and a total of 480 frames per second. The audio/video codec integrates multiple functions like real time preview, encoding, smart quad, motion detection, OSD and video playback. It can generate multiple video streams, two high resolution video MPEG4, using MJPEG for storage. In addition to the on board graphic engine and the 6 SATA RAID support, an additional graphics card and hardware RAID card can also be used via the PCIe interface. The standard ATX form factor and the rugged design of duo LAN, duo IDE and all solid capacitors, make the DVMB-764 the ideal platform for high performance digital video applications like intelligent video analysis, video conference, and PC based DVR or hybrid DVR.

Specifications

Processor System	CPU	LGA775 socket for Intel Quad-core / Core 2 Extreme/Core 2 Duo / Pentium D / Pentium 4 / Celeron D processor
	Chipset	Intel Q965+ICH8DO
	BIOS	Award 16Mbit SPI
	Front Side Bus	533/800/1066 MHz
Video System	Video Standard	Composite NTSC/PAL
	Video Input	16 Channel @ 480/400 FPS
	Capture Resolution	CIF/2CIF/D1
	Live Preview	16 Channel @ 480 FPS
	Video Codec	ISO/IEC 1496-2 MPEG4 Advanced Simple Profile
	Video Encode Performance	480/400 fps @ D1
	Video output	1 Smart Quad TV output (Preview or Playback)
	Audio Input /Encoder	16 Channel/ADPCM
	Digital Input/Output	12 isolated inputs/ 8 relay outputs
	Video Stream	MPEG4, MJPEG
	OSD	Yes, with encoding video
	Motion Detection	Motion detection & motion trace
Expansion Slot	Software Development Kits	Support Windows XP DVP Suite SDK with Sample program and C++ Source code
	PCIe x16	4.0 GB/s per direction, 1 slot
	PCIe x4	1 GB/s per direction, 1 slot
	PCI	32-bit/33MHz, 1 slots
Memory	Technology	Dual channel DDR2 533/667/800 MHz
	Max. Capacity	8 GB
	Socket	240-pin DIMM x 4
Graphics	Embedded	Intel Graphics Media Accelerator 3000 integrated High Definition Video Processing with max. resolutions to 2048 x 1536 bpp (@ 75 Hz)
	Add-on	PCIe x 16 slot, ADD2 on PCIe x 16 for 2nd Display
Ethernet	Interface	10/100/1000 Base-T
	Controller	G-LAN: Intel 82566DM and Marvell 88E8053
	Connector	RJ45 with LED connector x 2
SATA II	Max. Data Transfer Rate	300 MB/s
	Channel	6 (with RAID 0, 1, 5 and hot plug support)
EIDE	Mode	ATA 100/66/33
	Channel	2

Ordering Information

Part Number	Description
DVMB-764-16D1E	Socket LGA775; 16 CH D1 480FPS MPEG4 Hardware Encoding Digital Video Motherboard
DVMB-764-08D1E	Socket LGA775; 8 CH D1 240FPS MPEG4 Hardware Encoding Digital Video Motherboard
DVMB-764-16CFE	Socket LGA775; 16 CH CIF 480FPS MPEG4 Hardware Encoding Digital Video Motherboard

Accessories

Module	Description
9692A21000E	4 channels Video-In module with BNC connectors
9692080400E	4 x DO + 4 x DI (2 x RS-485; jumper selectable) module
9698080500E	8 x DI module
9698080600E	16 channels Audio-In/Video-In Combo module with D-Sub connectors (default module)

ADD2 Card	Description
AIMB-DVI-00A1E	ADD2 DVI Card (PCIe)
AIMB-VGA-00A1E	ADD2 VGA Card (PCIe)

* Only DVA-806 is inside DVMB-764 box as default module. Others accessories are optional items.

Full function SDK and demo program with complete C++ source code

DVMB-764 comes with a 16 channel SDK and C++ based demo program which helps the system integrator speed up application development or integration. It includes multi functions like video encode, decode, preview, GPIO control, hardware motion detection control, smart quad data preview and all the parameter setting.



Optional Items

CPU

Item	Socket LGA775 Core 2 Duo Processor	
P/N	96MP2DD-26FA-4M7T	INTEL CR2 DUO DT 2.66G 4M, 775-pin, 1066 MHz
	96MP2DD-24FA-4M7T	INTEL CR2 DUO DT 2.40G 4M, 775-pin, 1066 MHz

Item	Socket LGA775 Pentium D Processor	
P/N	96MPPD-3.4F8-4M7T	INTEL P-D 3.4G 800F 4M, 775-pin, 800 MHz
	96MPPD-3.2F8-4M7T	INTEL P-D 3.2G 800F 4M, 775-pin, 800 MHz

Item	Socket LGA775 Pentium 4 Processor	
P/N	96MPP4-3.8F8-2M7T	INTEL P4 3.8G 800F 2M 775-pin, 800 MHz
	96MPP4-3.4F8-2M7T	INTEL P4 3.4G 800F 2M 775-pin, 800 MHz

Item	Socket LGA775 Celeron D Processor	
P/N	96MPCD-3.2F5-5K7T	INTEL CEL-D 3.2G 512K 775-pin, 533 MHz
	96MPCD-2.9F5-2K7T	INTEL CEL-D 2.93G 256K 775-pin, 533 MHz

Memory

Item	Long-DIMM DDRII 667 RAM	
P/N	96D2-2G667FB-TR	TRANSCEND 2G DDR2-667 240P 128 x 4 (G)
	96D2-1G667NN-TR	TRANSCEND 1G DDR2-667 240P 64 x 8 (G)
	96D2I-1G667NN-TR	TRANSCEND 1G DDR2-667 240P 64 x 8, I GRD (G)
	96D2I-512M667NN-TR	TRANSCEND 512M DDR2-667 240P 64 x 8, I GRD (G)

Item	Long-DIMM DDRII 533 RAM	
P/N	96D2-1G533NN-AP	APACER 1G DDR2-533 240P 64 x 8 (G)
	96D2-1G533NN-TR1	TRANSCEND 1G DDR2-533 240P 64 x 8 (G)
	96D2-512M533NN-AP	APACER 512M DDR2-533 240P 64 x 8 (G)
	96D2-512M533NN-TR1	TRANS 512M DDR2-533 240P 64 x 8 SAMSUNG (G)

Others

P/N	1750000334	Cooling LGA775 CPU with fan up to 3.8G w/BP
	1960014558T000	Cooling LGA775 CPU DUCTSINK-P4