

### **Overview**

DVPB-HD is a rapid development platform based on Texas Instruments' DM6467 DaVinci™ Technology. The board/platform features all commonly required peripheral interfaces like Video & Audio I/O, GbE, RS-232, RS-485, USB2.0, VLYNQ, HDD, RTC, UART/IrDA, PCI, SPI and GPIO, DVPB-HD enables developers jump-start their application development and is ideal for rapid prototyping end-product.

DVPB-HD is bundled with a software package consisting BSP, SDK Framework and demo application enabling systems and application engineers develop their applications. The platform is software-compatible with the TI's TMDXEVM6467, thus allowing easy port of applications from the TI's EVM to DVPB-HD.

### **Features**

- TM320DM6467 DaVinci™ processorbased development board with MontaVista Linux 2.6.10 OS support
- Option for Video Input through BT1120/BT656 interface
- 4 channel SD or 1 channel HD or 1 channel HDMI through add-on card
- Video Output CVBS, HD Component and **HDMI** suport
- Option for interfacing CCD/CMOS sensors for video input
- Features Audio I/O, GbE, USB2.0, SPI, PCI, HDD (ATA/ATAPI - 6 Interface), VLYNQ, RS-232, RS-485, UART/IrDA, Wireless (optional), RTC, GPIO and JTAG (IEEE1149.1) Interfaces
- RoHS compliant design
- Option for Aluminum Metal Enclosure

## Instruments TI Developer Network



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### **Benefits**

- Optimized prototyping board based on DaVinci™ Technology Reduce Hardware Design Efforts
- Small Form Factor: 4.2"x 6.2" Ideal for pre-production prototyping
- Bundled with software package consisting of U-Boot bootloader, test utilities, and demo application - Easy to re-target applications
- eInfochips Support Access to a team of eInfochips' DaVinci™ technology experts to accelerate product development

# **Applications**

- Commercial/Industrial:
  - Video Encode/Transcode/Transrate
  - Video Surveillance DVR/Camera
  - Media Gateways
  - Multi-Conferencing Units
  - Medical Imaging

### Consumer:

- Digital Media Adaptor
- IP Video Phone
- Videoconferencing
- Advanced IP STB



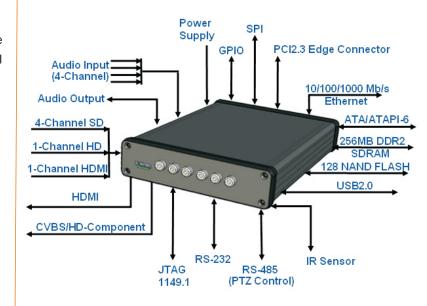
#### Texas Instruments' DaVinci™ TMS320DM6467, (C64x+ 594MHz; ARM926EJ 297MHz) Platform/Board Memory Program Memory: 128MB NAND FLASH System Memory: 256MB DDR2 SDRAM 4 Channel SD CVBS or 1 Channel HD Comopnent or HDMI (Optional) Video Input HDMI or HD/SD Component Video Video Output 4 Mono Line IN/2 Stereo Line IN (8kHz-to-96kHz sampling) Audio Input (4 Channel) 3.5mm Stereo Jack Stereo (8kHz-to-96kHz sampling) 3.5mm Stereo Jack Audio Output (1 Channel) Real Time Clock RTC with battery back-up IR Interface for Remote Control Infrared RS232 DB9 connector Serial Interface RS485 PCB Terminal block connector USB2.0 High-Speed (480Mbps) Host Type A connector 10/100/1000 Mb/s Ethernet RJ45 connector Network Interfrace 802.11b/g Wireless (Optional) Storage Supports Parallel ATA 2.5" & 3.5" Hard Disk **GPIO** Up to 12 with TTL level 24-pin header RS232 Interface & JTAG (IEEE 1149.1) Interface JTAG connector Debugging Four LEDs **Activity Indicators** 12V DC ±25%, 2A maximum 2.5mm DC Power Jack Power Operating temperature 0°C to 40°C Operating Environment Storage temperature -25°C to 85°C Humidity 5% to 95% (non-condensing)

## **Deliverables**

- DVPB-HD Board with Power Adapter, Cat5e/Cat 6 Cable
- Optional 4 Channel SD, 1 Channel HD, 1 Channel HDMI
- Software Package
- User Guide & Technical Reference Manual

## Software features

- The software package enables developers re-target their applications to DVPB-HD. It consists of:
  - BSP (Device Drivers and Firmware for the board)
  - Monta Vista Linux 2.6.10 OS support
  - U-Boot Bootloader
  - Test utilities (approximately 8) and sample codes
  - Demo application for 4 or 1 Channel Audio/Video Streaming



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