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™ processor-based 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
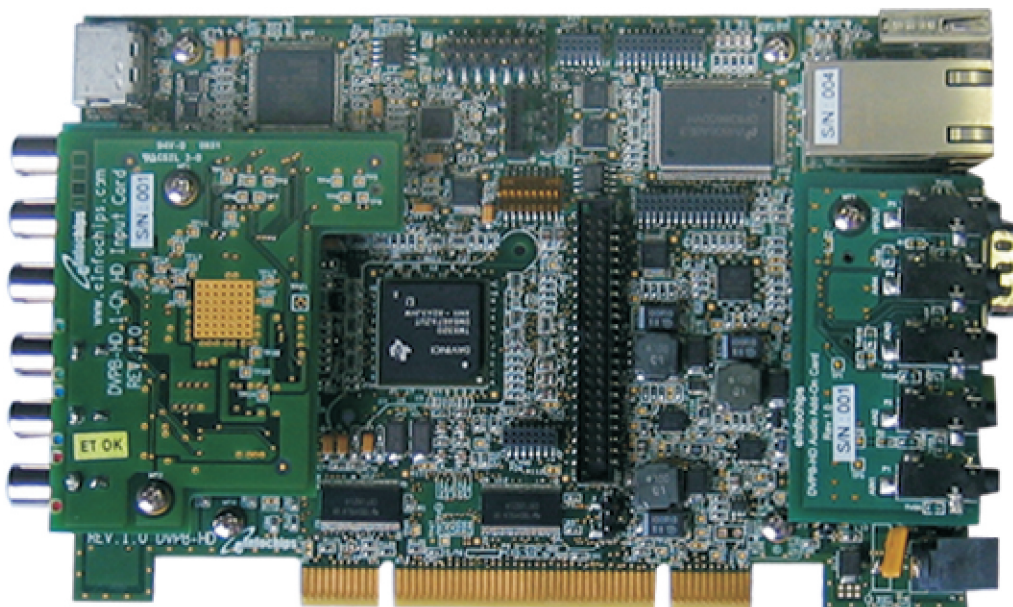- Option for Aluminum Metal Enclosure

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

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Recipient of Texas Instruments' "Outstanding Work on DaVinci(TM) Technology" award

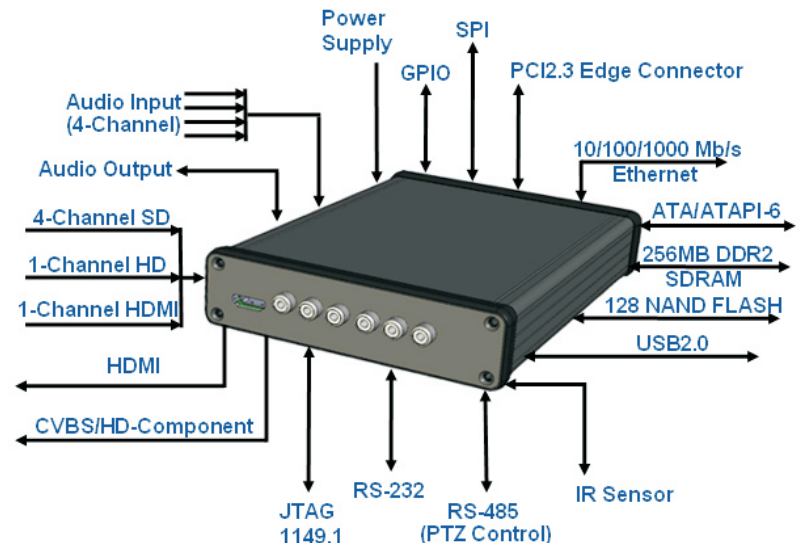| Platform/Board	Texas Instruments' DaVinci™ TMS320DM6467, (C64x+ 594MHz; ARM926EJ 297MHz)	
Memory	Program Memory: 128MB NAND FLASH	
	System Memory: 256MB DDR2 SDRAM	
Video Input	4 Channel SD CVBS or 1 Channel HD Comopnent or HDMI (Optional)	
Video Output	HDMI or HD/SD Component Video	
Audio Input (4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