# DVPB-HD | Digital Video Processing Board - High Definition

## 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

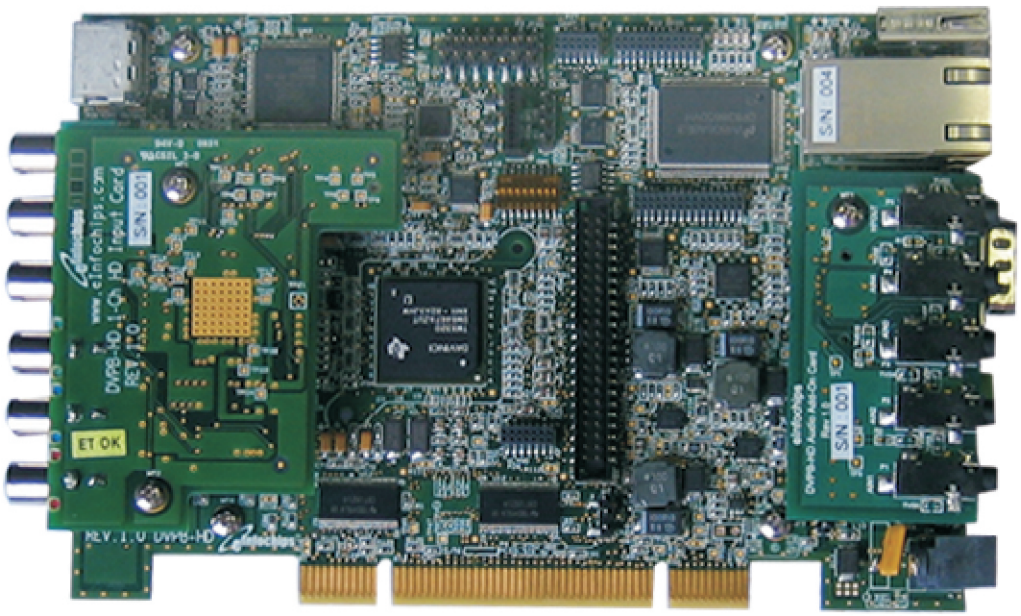
- Optimized prototyping board based on DaVinci™ Technology - Reduce Hardware Design Efforts
- Small Form Factor: 4.2"x 6.2" - Ideal for pre-production prototyping
- Bundled with software package consisting of U-Boot bootloader, test utilities, and demo application - Easy to re-target applications
- eInfochips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

Texas Instruments
TI Developer Network


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



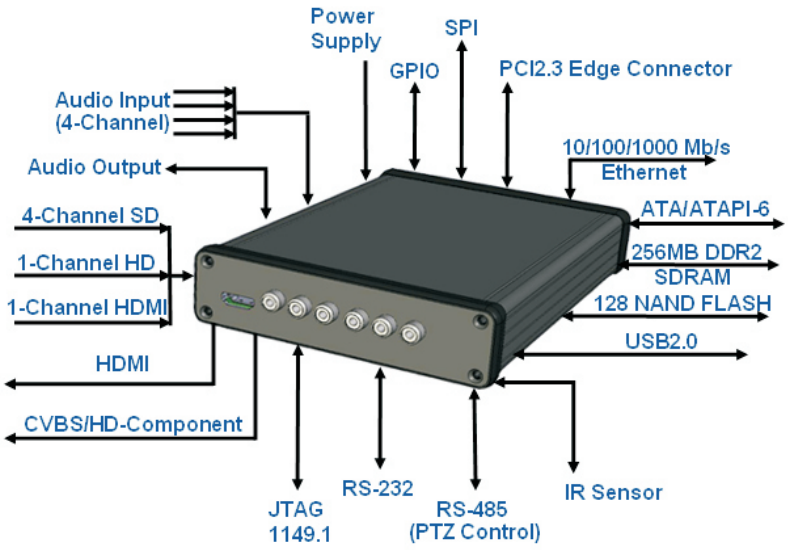
| Platform/Board | Texas Instruments' DaVinci™ TMS320DM6467, (C64x+ 594MHz; ARM926EJ 297MHz) | |
|---|---|---|
| Memory | Program Memory: 128MB NAND FLASH | |
| | System Memory: 256MB DDR2 SDRAM | |
| Video Input | 4 Channel SD CVBS or 1 Channel HD Comopnent or HDMI (Optional) | |
| Video Output | HDMI 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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