



Technology for Innovators™

products

applications

design support

buy

[TI Home](#) > [Semiconductors](#) > [TMS320™ DSP Platforms](#) > [DaVinci™ Digital Media Processors](#) > [TMS320DM644x DSPs](#) >

## DM6446 Digital Video Evaluation Module

TMDSEVM6446, Status: ACTIVE

Texas Instruments

Description

Features

What's Included

Available Updates

	TMDSEVM6446	TMDSEVM6446-OE
<b>Name</b>	DM6446 Digital Video Evaluation Module	DM6446 Digital Video Evaluation Module
<b>Status</b>	ACTIVE	ACTIVE
<b>Host</b>	PC	PC
<b>OS</b>	Microsoft Windows 2000, XP & Linux	Microsoft Windows 2000, XP & Linux
<b>Current Version</b>	v1.1	v1.1
<b>Version Date</b>	02/16/2007	02/16/2007

### Product Information

Description

**Registration of your DVEVM is required** in order to be eligible to receive your updates. [Register Now!](#)

[View the DVEVM in 3D](#)

The Digital Video Evaluation Module (DVEVM) enables developers to build start immediate evaluation of DaVinci™ processors and begin building digital video applications such as videophones, automotive infotainment, digital still cameras, streaming media, IP set-top boxes, video security systems and digital video products that have yet to be invented.

The Digital Video Evaluation Module (DVEVM) allows developers to write production-ready application code for the ARM and provides access to the DSP core using DaVinci APIs to begin immediate application development for the TMS320DM6443 and TMS320DM6446 digital media processors.

The [TMSADP1420 adapter](#) is used for connecting TI and 3rd party XDS510 and XDS560- class emulators with a 14 pin native connector to the TMDSEVM6446 or customer boards with a compact (CTI) 20-pin header. The adapter improves signal integrity, translates voltages, and can optionally provide adaptive clocking.

The hardware for the **DM6446 Digital Video Evaluation Module (DSP13078U)** and the **DM6446 Digital Video Evaluation Module with European Power Cords (DSP13081U)** differ slightly per the following:

#### DM6446 Digital Video Evaluation Module - (DSP13078U)

- TMS320DM6446 DaVinci™ processor-based development board
- NTSC video camera
- NTSC LCD screen, speakers and microphone

IR remote  
Hard disk drive (2.5-inch 40G)

### DM6446 Digital Video Evaluation Module with European Power Cords - (DSP13081U)

TMS320DM446 DaVinci™ processor-based development board  
PAL video camera  
PAL LCD screen, speakers and microphone  
IR remote  
Hard disk drive (2.5-inch 40G)

## Features

### DaVinci Product Bulletin

The DVEVM is a complete out of box experience. The developer can turn on the board and hook up the included LCD screen. The board will boot MontaVista Linux and run a GUI that can be controlled by the included IR remote. The GUI includes access to three demos and the ability to run five different codec combinations.

#### The demos are:

Video and Audio decode  
Video and Audio encode (uses included camera)  
Simultaneous Video decode/encode

#### The five codec combos are:

R1.1.1 H.264 Video Encode, H.264 Video Decode  
R1.2.1 H.264 (Baseline Profile) Video Encode, G.711 Speech Encode  
R1.2.2 MPEG-4 (Simple Profile) Video Encode, G.711 Speech Encode  
R1.3.2 MPEG2 Video Decode, MPEG1 Audio Decode  
R1.3.1 H.264 (Baseline Profile) Video Decode, AAC Audio Decode  
R1.3.3 MPEG-4 (Simple Profile) Video Decode, G.711 Speech Decode

#### These available demo codecs are on the DVEVM.

AAC+	MPEG4
G7.11	MPEG2
H.264	

#### These codecs are available for production licensing from TI and will be on future development platforms.

WMV9	WMA8
VC1	MP3
JPEG	G.728
AAC	G.723.1
WMA9	G.729ab

## What's Included

[TMS320DM6446, DaVinci Digital Media System-on-Chip](#)  
Connectivity - CD-quality audio input and output  
Connectivity - Daughter card connections to most peripheral interfaces  
Connectivity - Multiple on-board memory types: CompactFlash, ATA, SD, DDR  
Connectivity - USB 2.0, 10/100 EMAC  
Connectivity - Video input via NTSC/PAL  
Connectivity - Video output via NTSC/PAL and YPbPr/RGB  
Hardware - Hard disk drive (2.5-inch 40G)

Hardware - IR remote

Hardware - LCD screen, speakers and microphone

Hardware - NTSC/PAL video camera

Hardware - TMS320DM446 DaVinci™ processor-based development board

Software - Codec Demos

Software - GNU Development Tools

Software - Multimedia APIs and Frameworks

Software - Preliminary Demo Version of MontaVista Linux 2.6.10

#### **Available Updates**

Register your DVEVM to receive software and documentation updates!