

Videoconference Development Platform (VDP II)

DaVinci™ Based Videoconference Development Platform

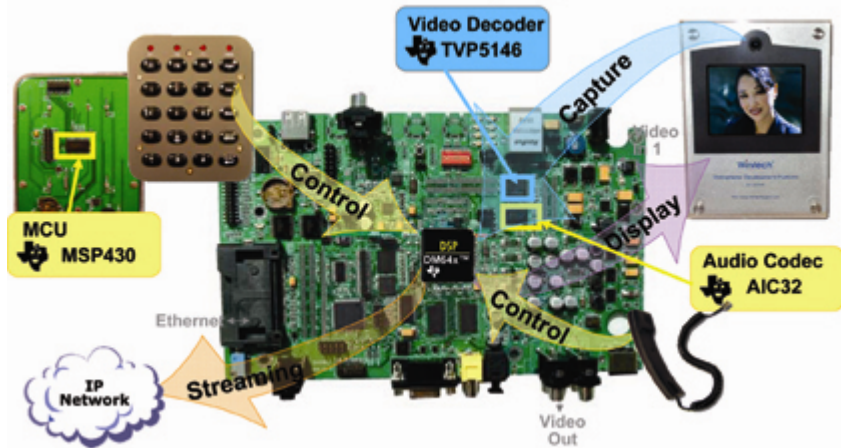


Solution description

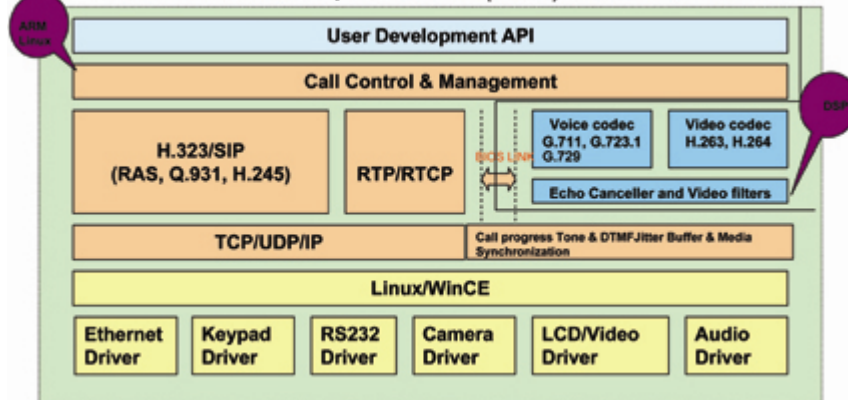
The Videoconference Development Platform (VDP II) is a combined hardware/software platform for developing IP-based video conference, videophone, IPTV and other IP-based video systems. The VDP II is based on Texas Instruments Incorporated's (TI) DaVinci™ technology.

TI's DaVinci™ technology is optimized for digital video systems and it includes digital signal processor (DSP)-based SoCs, multimedia codecs, APIs, real-time OS, frameworks and development tools. DaVinci™ technology provides higher video quality and resolution, including D1, H.264, 25-30 FPS and also real-time application based on dual-core architecture.

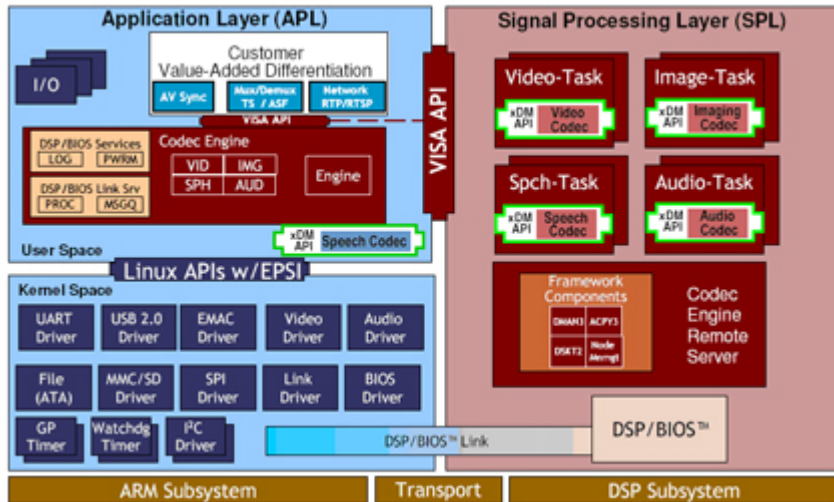
Videconference Development Platform (VDP II) – Hardware Connection



Videconference Development Platform (VDP II) – Software Architecture



Videoconference Development Platform (VDP II) –Task on DaVinci Platform



Solution Benefits:

- Significantly lowers the BOM cost by using one single SoC design
- Provides customers with richer GUI via WinCE or Linux OS and better value-added applications
- Greatly improves video quality (H.264, D1, 30 FPS) with the high performance of DaVinci™ technology
- Conveniently enables the developer with easy-to-use out-of-box solution and minimize the developer's design investment
- Significantly shortens the developer's time to market with the total solution of flexible and open development environment

Target Applications:

- IP-based videoconference
- Videophone
- IPTV
- IP Net Camera
- Remote medical equipment

Functional Description:

The VDP II is a videoconference development platform that enables the developer to evaluate and prototype design. The evaluation and prototype design are closely parallel to such final applications as videoconference, IPTV, IP net-camera. VDP II provides the developers OS (Linux or WinCE), the device drivers, network protocol, communication stack (H.323 or SIP), and other peripheral interfaces like USB/VGA/RS232/LAN and GUI.

Hardware Materials:

- Videoconference processor board subsystem
- Videophone LCD display & camera subsystem
- Power supply, connectivity interface & keyboard
- Ethernet N/W Hub box & cable

Processors:

- TMS320DM6446TI DSP @600 MHz

Memory:

- 64MB DDR2 SDRAM, 533MHz
- 16MB (8M x 16) NOR flash
- 64MB NAND flash

Operating System:

- Linux (2.6.X), WinCE

Peripherals:

- Supports nearly all peripheral interfaces for consumer applications, such as USB, VGA, RS232, LAN.

Dimensions:

- 126mm*205mm

Software:

GUI

Video and Audio demos:

- Video and Audio decode (H.264, H.263, G.723, G.729, and G.711)
- Video and Audio encode, (H.264, H.263, G.723, G.729, and G.711)
- Simultaneous Video decode/encode

Communications Protocol

- H.323, SIP
- TCP/IP, RTP/RTC

Device Driver:

- USB interface
- Video & Audio Codec
- WiFi (optional)

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