

Product Bulletin

Videophone Development Platform (VDP)

Key Benefits

- Significantly **improves quality** of videophones with high-quality, real-time H.264 CIF (352 × 288) resolution.
- Dramatically **lowers system cost** with optimized, single digital media processor system.
- Greatly **shortens the time to market** with easy-to-use, flexible, open development environment.

The Videophone Development Platform (VDP) empowers OEMs to bring consumer broadband videophones to market faster with a complete development platform for designing point-to-point IP-based videophone systems. The VDP is an integrated hardware/software development platform that reduces both design complexity and total system bill of materials. It has everything developers need to design point-to-point videophone systems immediately.

All application system software run on TI's 600-MHz DSP-based TMS320DM64x™ digital media processor, including audio/video compression, networking stacks and control protocols.

The VDP solution includes:

Hardware Platform

- ❖ Videophone LCD display and CCD camera subsystem
- ❖ Videophone processor board subsystem, power supply, connectivity interface and keyboard
- ❖ Ethernet network hub box and cables

Application Software

- ❖ Real-time system integrate frameworks (RTSIF)
- ❖ Video CODEC (H.264 baseline profile/H.263)
- ❖ Audio CODEC (G.723/G.711)
- ❖ Communications stack (H.323)
- ❖ Network protocol (TCP/IP, RTP/RTCP)
- ❖ User interface and demo applications
- ❖ Getting started documents, user guides and software CD-ROM

The hardware on the modular VDP offers a complete development option for designing and building end-user videophone systems. Developers can connect the development boards over a live network and/or the Internet to test their system under real-world operating conditions. The VDP can also be easily configured for different video telephony applications. Included on the VDP hardware platform are external memory, a variety of peripherals, audio/video interfaces, network connectivity and communication interfaces.



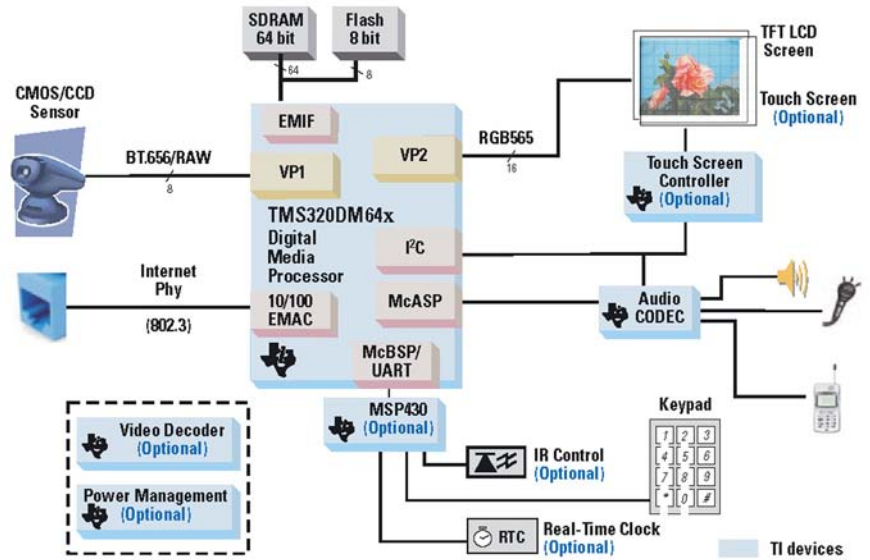
Each VDP is comprised of two DSP based boards, two DSP-based boards, two CCD cameras, two 5-inch LCD displays, two phone keypads as well as the software and documentation to get started immediately.

The programmable foundation of the DM64x digital media processor on the VDP enables OEMs to customize the entire design, from CODEC to user interface, and eventually create their own product lines. The VDP incorporates industry standard protocols so that products developed with the VDP are compatible with other videophones and the developer's existing IP infrastructure. Likewise, the VDP uses complementary TI analog technology, including the TVP5150 video decoder, AIC23 audio CODEC and power management products to enable the highest video and audio quality possible. The VDP includes all the software necessary to evaluate, design and test video telephony endpoints, including video and voice CODEC, integrated reference frameworks, communications stack and network protocols.

Availability/Pricing

In stock at \$6,950.

Typical DM64x-Based Block Diagram Consumer Videophones



For purchase information, please contact Wintech Digital or your local TI sales representative or any authorized Wintech distributor.

For more information, go to www.wintechdigital.com or www.ti.com/videophone.

TMS320DM64x™ is Texas Instruments'(TI) registered trademark.

About Wintech

Wintech Digital Systems Technology Corp. is an embedded video communication solution provider and DSP development tool provider. It has developed DSP development platforms, target boards, emulators and DSP application software. Wintech has also developed DM64x based video communication solutions. Wintech is a member of TI's (Texas Instruments) worldwide DSP third party program and a third party partner of Intel and Microsoft.

Wintech has strong R&D capability and strong marketing resources. 90% of it's employees are engineers. It also has a management team that is experienced at managing development, production and marketing. Wintech owns multiple patents and has developed a series of well-adopted DSP solutions.

Wintech has also published numerous DSP books. Relying on its superior technology, Wintech has served over 10,000 customers in such fields as communications, imaging, auto control, home electric equipment and DMC. Many of these customers have become Wintech's long-term partners. Wintech has offices and distributors in U.S., China, Asia and Europe. Wintech's current distributors can be found in Korea, Japan, Israel, India, Germany, England and Taiwan.



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