

DSP Chip Level Solutions

SURF offers a variety of DSP-level solutions for the development of telecom infrastructure applications, each of which comprises a complete media processing solution offering simultaneous support for multimedia convergence—audio/voice, video, fax and/or modem—all running on a single DSP. Equipment manufacturers who develop Media Gateways, Media Servers, CTI products, and other applications that require media processing find this solution ideal and optimized for their requirements, as well as quick and easy to integrate into their hardware designs.

Fast and Easy Development and Integration

Featuring cost-effective, unmatched processing power of varying densities (depending on the DSP model), each member of SURF's DSP family comes with a complete software, sample applications and documentation set. The software relates to both DSP and Host levels, enabling easy and comprehensive DSP control, monitoring, diagnostics, and streaming/recording functions. The sample applications demonstrate how to perform media processing-related tasks using the SURFWare-Media™ API. The complete documentation set includes a dedicated hardware reference guide for guidance throughout the hardware design. In addition, comprehensive software developer and reference guides help the application designer develop applications using the SURFWare-Media API. Additionally, to shorten the development process, SURF provides schematics and a reference board.

Support for the 3G mobile network is available through the SURF 3G-324 M interface which provides high-level APIs for performing call setup and call control.

High Performance with TI's C64x DSP Generation

Texas Instruments' C64x series of DSP devices are specifically designed to handle converged applications that require a high-performance fixed-point processing architecture with significant memory and multiple high-speed I/O paths such as audio, voice, video and wireless applications. The combination of TI's high-performance silicon with SURF's field-proven multimedia processing software results in a powerful yet flexible solution that helps keep development costs down while accelerating time-to-market.



THE SURF SOLUTION >

The SURF solution supports multimedia applications based on an open, standards-based architecture. SURF's media processing software – SURFWare™ - provides the most comprehensive set of media processing capabilities available in the market. SURFWare™ also enables, through its open framework, capabilities proprietary applications to be embedded directly into the DSP framework. Multiple drivers and a variety of interfaces facilitate integration while built-in diagnostics provide easier troubleshooting and better application control.

SPECIFICATIONS >

CHIP	TMS320C6412	TMS320C6424	TMS320TIC16482	TMS320TIC16486
	600 MHz 720 MHz	400 MHz 1000 MHz	1 GHz	6x500 MHz 6x625 MHz
POWER CONSUMPTION	2.5W	2W	3.5W	4.5W
INTERFACES	HPI TDM JTAG External memory Ethernet	HPI TDM JTAG External memory Ethernet	HPI TDM JTAG External memory Ethernet	HPI JTAG External memory Ethernet
SOFTWARE SPECIFICATIONS - See SURFWARE Brochure				

ABOUT SURF COMMUNICATION SOLUTIONS >

SURF Communication Solutions (SURF) is an industry leader in high-capacity processing solutions for real-time multimedia communication systems and applications. Since 1996, SURF's products have delivered the integral technology behind many of the leading vendor's multimedia servers and gateways deployed to operators and service providers worldwide. SURF-powered multimedia applications are delivering value added services to millions of end-users every day. Today, SURF is ideally positioned to stimulate change in the way we communicate. The video-ready SURF solution supports multimedia processing including full video, voice and data IP to IP communications, as well as modem and fax over IP. It is a fully converged multimedia processing subsystem that integrates easily into media gateways and servers. Since there is no such thing as "one size fits all," the SURF offering is available as a solution platform or in various form factors or DSP chips affording unmatched density and optimal performance.