

SURFAce-812



E1/T1 PCIe Voice & Video Blade

This standard height, full length PCI Express telecommunications card is a comprehensive media processing solution. Up to 8 x E1/T1 interfaces on a single PCIe board affording high capacity without the need for an external interface card or external transcoder. SURFAce812 delivers data, voice and video processing as well as transcoding and ISDN PRI signaling all on a single board.

All on a Single Board

Addressing the need for a cost-effective multimedia solution that combines media processing and signaling on a single board, SURFAce-812 is ideal for communication systems and value added services that use PSTN connectivity. Moreover, vendors can also deliver NGN services for IP based networks using the same card and the same interfaces. Therefore, you need only invest once to receive a solution that can address your current needs as well as those of tomorrow.

Cost-effective Multimedia Solution

Telecommunication system integrators and vendors, value added service providers and application developers can now take advantage of a cost-effective, feature-rich multimedia communication solution.

The SURFAce-812 packs connectivity, signaling, multimedia processing and video transcoding into a single solution, on a single board:

- **Feature rich:**
 - ISDN/PRI signaling – interoperable with any operator network
 - Multimedia processing and PSTN access on the same slot
 - Video – transcoding/transrating from any to any codec including support for H.264, MPEG4, MPEG2, WMV9/VC1 and more!
 - Video conferencing
 - Video enhancement – scrolling text overlay with any-language support; bitmap insertion for ad injection
 - Voice – TDM to IP gateway / narrow & wideband IP to IP transcoding
 - Data – fax and modem
- **Open framework**
- **Competitive price per port**
- **Market Proven**

TARGET APPLICATIONS

SURFAce-812 is ideal for the following communication platforms and multimedia applications:

- Media Server (MRF)
- Media Gateway
- Session Border Controller (SBC)
- 3G to IP Video Gateway
- IVR/IVVR
- iPBX
- IWF
- Voice/Video Conferencing
- Mobile Value Added Services (VAS)
 - Mobile TV
 - Mobile VOD
 - Video calling
 - Ringback tones
- Secure voice applications utilizing SRTP or V.150.1 and secure voice gateways

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 >

FORM FACTOR	Single lane PCI Express Up to 8 x DSPs TI C6412 720MHz
INTERFACES	8 x E1/T1/J1 4 x RJ45 100/1000-BaseT PTMC connectors
SIZE	PCIe full height & full length
POWER	Up to 15W
JTAG	DSP JTAG connector for DSP emulation
OPERATING REQUIREMENTS	<p>Operating Conditions Temperature: -0°C - 55°C (32°F - 131°F) Humidity: 10% to 80% (non-condensing)</p> <p>Storage -25°C - 85°C (-13°F - 185°F)</p>
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.