

MPAC PSTN/IP Media Server Board

Application developers and OEMs find the MPAC PSTN/IP Media Server Board ideal for a wide variety of media applications including IVRs, servers and gateways.

KEY FEATURES

- STM-1 and OC-3 support on PCIe form factor
- High-density media processing
- 2016 channels of RTP
- Combined media and signaling

KEY BENEFITS

- Combined media and signaling equals lower cost
- Network agnostic applications
- IP and PSTN on single board so no need for external media gateway
- Field-proven protocols, stacks and interfaces
- TDAPI support for rapid development

APPLICATIONS

- Media servers
- Media gateways
- 3G-324M video servers
- IMS MRF
- IVR
- IVVR
- Announcement servers

OVERVIEW

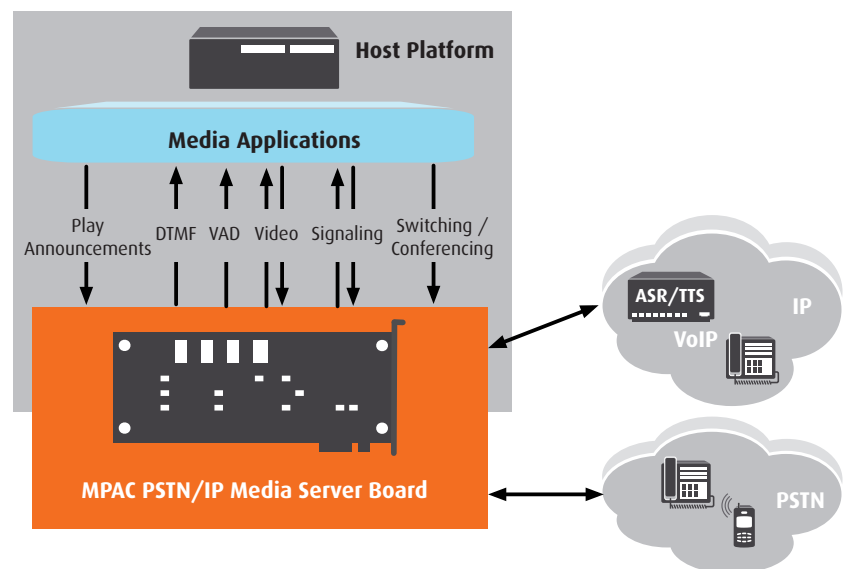
The MPAC PSTN/IP Media Server Board is a highly scalable PCIe-based telephony board, which provides the interfaces, signaling protocols and media processing needed for converged IP and PSTN media server platforms.

The board uses the latest generation of FPGA technology which provides the high-density media processing power needed to apply the wide range of media processing functions across the PSTN and IP channels.

Deliver feature-rich high-density solutions – The board can be configured with a choice of PSTN interfaces, starting with a low-density 4 E1/T1 configuration up to high-density STM-1/OC-3 (63 E1/84 T1) configuration. For converged and IP-based networks the board features a high-speed IP interface supporting 2016 bi-directional RTP channels.

Network agnostic, media processing capabilities, including play/record announcement, video playback/streaming and record, tone detection and conferencing can be applied concurrently on all channels, even with the highest density board configuration.

Protect investments – The MPAC PSTN/IP Media Server Board is backwardly compatible with previous generations of MPAC Telephony Boards, allowing instant portability of an existing application to the latest generation of boards.



MPAC PSTN/IP Media Server Board

COMPANY OVERVIEW

Major equipment vendors and operators rely on Telesoft Technologies for leading-edge technology. Our extensive experience of real-life SS7, SIGTRAN and SIP networks enables our partners to deliver solutions to the widest possible market, quickly and at minimal cost.

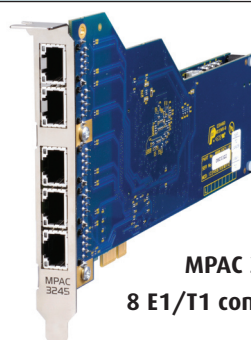
In 1989 Telesoft Technologies set out with a mission to deliver specialist high-density signaling, media and monitoring solutions for deployment in real-world networks.

We continue to impress our customers around the globe by delivering solutions to unique requirements more quickly and more cost-effectively than our competitors.

Features	Comments
Type	Available with either 4 E1/T1, 8 E1/T1 or STM-1/OC-3 4 T1/E1, STM-1/OC-3 has half-height, half-length PCIe form factor 8 T1/E1 has full-height, half-length PCIe form factor
Data links	240 SS7 signaling data links 64 ISDN signaling data links
Signaling	ISUP, ISDN, BICC – high availability
Media transport	2016 bi-directional RTP streams (RFC 3250) • Support for 10ms packets • Silence suppression (G.711 appendix 2 – roadmap) • Comfort noise generation • Packet loss concealment • insert last packet • insert silence • G.711 appendix 2 (roadmap)
Media	Acoustic tone detection (DTMF) DTMF over IP (RFC 2833) Voice activity detection (VAD) detection (2016 channels) T30/T38 FAX/MODEM relay + termination (.tiff) (roadmap) Play/record announcement (2018 channels)
Conferencing	Voice conferencing • 3-way or n-way
Video	3G-324M video • 240 concurrent sessions • H.324M Annex C • H.223 Annex A, Annex B, Annex C (roadmap) • Play from/record to .3GP file • Video streaming via SIP/RTP
IP signaling	SIP, SIP-I, BICC, SIGTRAN
Operating system	Linux, Windows, Solaris



MPAC 3220
4 E1/T1 configuration



MPAC 3245
8 E1/T1 configuration



MPAC 3250
STM-1/OC-3 configuration

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