



MPAC PSTN/IP Media Gateway Board

A highly flexible board and software solution to provide conversion between disparate telecommunications networks. The MPAC PSTN/IP Media Gateway Board allows channel switching of IP and PSTN data in an 'any-to-any' combination.

KEY FEATURES

- Supports ISUP, SS7, BICC signaling
- PCIe form factor fits all common computer servers
- TDAPI software framework support for rapid development
- Allows network-agnostic application development
- Produce highly scalable applications
- PCIe smallest available form factor (cPCI variant available)

KEY BENEFITS

- Ideal for application developers wishing to develop media gateways
- Highest channel density and smallest form factor board available on the market today
- Combined media and signaling reduces cost
- Field-proven software protocol stacks and interfaces

APPLICATIONS

- Media gateways:
 - TDM to/from RTP
 - TDM to/from TDM
 - RTP to/from RTP
 - G.711 to 3G-324M

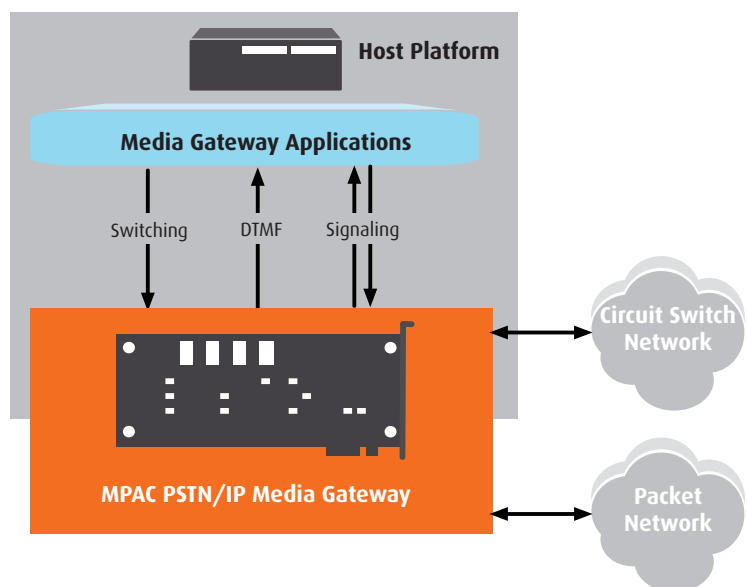
OVERVIEW

The MPAC PSTN/IP Media Gateway Board enables OEMs to build feature-rich combined media and signaling gateways. A highly scalable PCIe-based telephony board, it provides the interfaces and signaling protocols needed for inter-working between converged TDM, 2G/3G and next-generation IP networks.

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 a high-density STM-1/OC-3 (63 E1/84 T1) configuration. For the IP interconnect the board features a high-speed Gbit ethernet interface supporting 2016 bi-direction RTP channels and providing enough bandwidth to switch out all TDM channels.

The TDAPI switching API is easy to use and makes switching calls from any network to any other network simple. A range of call control protocols complement the board including ISUP, BICC and ISDN and the generic TDAPI call control API makes porting applications from protocol to protocol simple.

Protect investments – The MPAC PSTN/IP Media Gateway 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 Gateway 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.

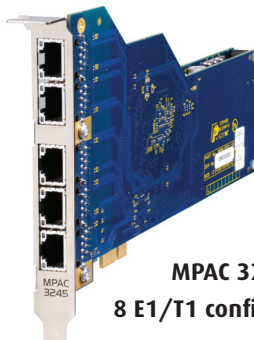
In 1989 Telesoft Technologies set out with a mission to deliver specialist high-density signaling, media and monitoring solutions for deployment in real-world networks.

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

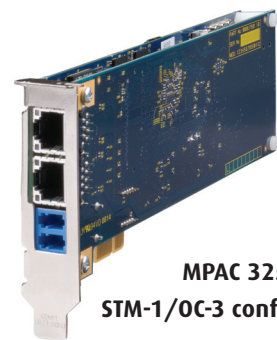
Features	Comments
Type	Available with either 4 E1/T1, 8 E1/T1 or STM-1/OC-3 4 E1/T1, OC-3/STM-1 has half-height, half-length PCIe form factor 8 T1/E1 has full-height, half-length PCIe form factor
Data links	240 SS7 signaling data link 64 ISDN signaling data links
Signaling	ISUP, ISDN, BICC – high availability
GB ethernet	GB ethernet or host server ethernet (via PCI express bus), 2016 RTP bearers
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) RFC 2833 generation (roadmap) Tone clamping (roadmap)
Video	3G-324M video • 240 concurrent sessions • H.324M Annex C, Annex Z (roadmap) • 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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