

MPAC PSTN/IP Monitoring and Recording Board

Combined media and signaling support allows OEMs and application developers to rapidly develop highly scalable voice and video monitoring and recording applications for fixed, 2G and 3G cellular networks.

KEY FEATURES

- E1/T1 or STM-1/OC-3 optical interfaces
- Supports transporting all TDM channels over IP
- Support multiple-event detection algorithms
- Real-time configuration
- Record .WAV and .3GP to file for instant playback on popular media players
- PCIe smallest available form factor (cPCI also available)

KEY BENEFITS

- Monitor and record both media and signaling with a single board
- Produce highly scalable applications
- IP and PSTN on single board, removing need for an external media gateway
- Field-proven protocols, stacks and interfaces
- TDAPI software provides for rapid development
- The board represents the smallest form factor available on the market today and fits in all PCIe servers

APPLICATIONS

- Network monitoring
- BSS and OSS applications
- VAS applications
- Call monitoring and recording for OSS
- Call logging

*CESoPSN is a derivative of RTP, which has additional support for the transport of multiple G.711 channels in IP packets.



OVERVIEW

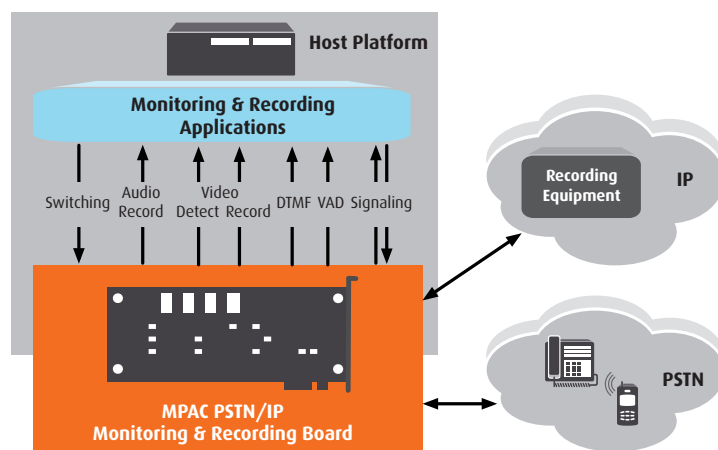
The MPAC PSTN/IP Monitoring and Recording Board enables high-density signal monitoring and media recording in fixed, 2G and 3G cellular networks. Call content (audio or video) can be recorded locally or transported over IP to remote recording devices. The board supports two IP-based transport technologies, RTP and CESoPSN*.

Deliver high-density telephony network monitoring solutions – The board can be configured with a choice of PSTN interfaces, starting with a low-density 4 E1/T1 configuration up to ultra high-density STM-1/OC-3 (63 E1/84 T1) configuration.

For signal monitoring – The board supports high-density monitoring including SS7 and ISDN signaling data links allowing up to 512 links to be monitored concurrently on a single board. The signaling links can be processed locally or be transported over IP for remote processing. Filters can be applied to reduce load on the host CPU.

For call content monitoring – Multiple event detection algorithms are supported including DTMF, VAD, MF tones and 3G-324M video calls. The detection algorithms are highly configurable and can be applied concurrently to all TDM channels. Detected 3G-324M video calls can be recorded to hard disk as .3GP files, or switched out to IP either as a 3G-324M bit stream or as separate channels for the audio and video. Fax modem detection is also supported enabling users to classify network calls as fax and many signaling parameters such as the TSI number in the T.30 fax headers, as well as the standard ‘called’ and ‘calling’ party numbers.

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



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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.

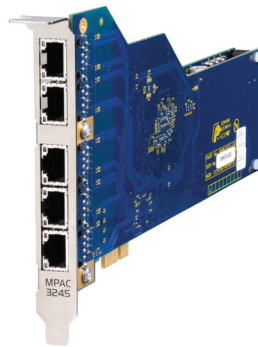
In 1989 Telesoft Technologies set out with a mission to deliver specialist high-density signaling, media and monitoring solutions for deployment in real-world networks.

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 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 cPCI form factor available, features may vary
Data links	512 SS7 signaling data links in monitoring or terminating modes 8 ATM or HDLC high-speed links (HSL) 64 ISDN signaling data links SIO filtering
GB ethernet	GB ethernet or host server ethernet (via PCI-Express bus)
Media transport	2016 CE5oPSN streams or 2016 RTP streams
Media	Voice activity detection (VAD) – 2016 channels concurrent DTMF detection – 2016 channels FAX MODEM detection (T.30) Timeslot summation (Tx+Rx paths) Record media to .WAV or .3GP file 2kHz continuity test (COT)
Video	240 3G-324M channel video detect/record
Operating system	Linux, Windows, Solaris
Switching:	
On board	Low latency (<100ms) switching path setup
Off board	RTP over PCIe bus or ethernet (cPCI via PCIMG 2.16 backplane)



MPAC 3220
4 E1/T1 configuration



MPAC 3245
8 E1/T1 configuration



MPAC 3250
STM-1/OC-3 configuration



MPAC 5600
cPCI Configuration

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