

MPAC PSTN Signaling and Switching Board

Ideal for high-density SS7 signaling applications, the MPAC PSTN Signaling and Switching Board provides access to signaling channels of fixed and 2G/3G cellular networks. Perfect for a wide variety of signaling node and gateway applications.

KEY FEATURES

- PCIe smallest form factor (cPCI and PCI variants also available)
- The board can be configured prior to delivery with either 4 E1/T1 or 8 E1/T1
- 256 low-speed SS7 signaling links (56/64kbit/s)
- 8 high-speed links (SIGTRAN, ATM or HDLC)
- Comprehensive signaling protocol support: MTP, ISUP, ISDN, TCAP, SCCP, GSM MAP, INAP, WIN, CAMEL, IS-41, BICC, SIP, SIGTRAN etc
- Trunk-to-trunk switching
- 3G-324M video capability
- Redundancy available for high availability

KEY BENEFITS

- Very high signaling link density for demanding applications
- Deployed worldwide and interconnected with hundreds of networks and switches
- Protect investment with backwardly compatible APIs
- Suitable for customized signaling applications

APPLICATIONS

- Signaling gateways
- Cellular network nodes: GMSC, SMSC, HLR, MSC/VLR, EIR etc
- Missed-call alert systems
- High-density signaling in PSTN networks
- SCPs and STPs
- Roaming services: 'welcome roamer', 'steering', 'bon voyage' etc
- Protocol converters
- IN service nodes
- Voice and video gateway/mail platforms where bearers are handled separately

OVERVIEW

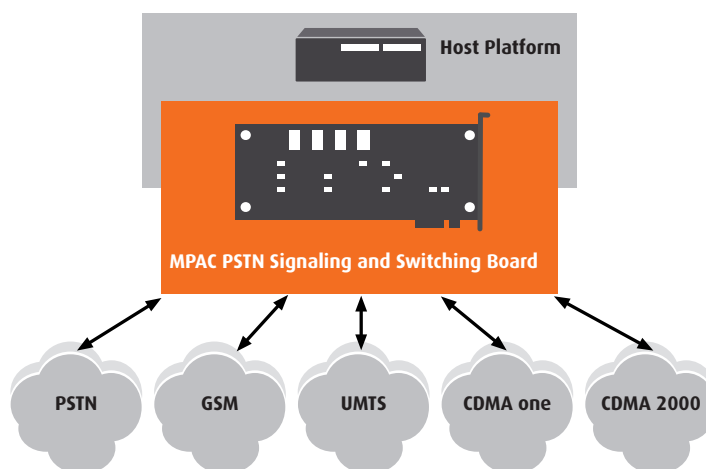
The MPAC PSTN Signaling and Switching Board provides system integrators, OEMs and application developers the capability to build applications which require access to the signaling channels in PSTN, GSM, UMTS, CDMAOne and CDMA2000 wireless networks.

The MPAC PSTN Signaling and Switching Board is capable of terminating signaling links on every channel of the E1/T1 ports, providing market-beating densities of both low-speed SS7 signaling links (56 or 64kbit/s) and high-speed links (ATM or HDLC) in a PCIe form factor. The board can be configured at manufacture to support either 4 or 8 ports with can be software configured to be E1 or T1.

The MPAC PSTN Signaling and Switching Board is used in conjunction with standards-compliant TDAPI protocol software stacks. TDAPI provides a series of SDK and run-time libraries which enable rapid application development.

TDAPI signaling software offers a wide variety of network protocol stacks, including country and switch variants, with the ability to licence only those layers or signaling links required. Available APIs include MTP, ISUP, ISDN, TCAP, SCCP, GSM MAP, INAP, WIN, CAMEL, IS-41, BICC, SIP, SIGTRAN and many others.

In addition to high-density signaling applications, the board's circuit switching capabilities make it suitable for applications requiring trunk-to-trunk circuit switching combined with signaling, such as ISUP, BICC, ISDN switches.



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COMPANY OVERVIEW	Features	Comments
<p>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.</p> <p>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.</p> <p>We continue to impress our customers around the globe by delivering solutions to unique requirements more quickly and more cost-effectively than our competitors.</p>	Type	Available with either 4 or 8 E1/T1 4 E1/T1 has half-height, half-length PCIe form factor 8 E1/T1 has full-height, half-length PCIe form factor
	Data links	Up to 240 signaling data links in terminating or monitoring mode Supports 8 ATM or HLDC high-speed links (HSL)
	MTP L2/L3	Message transfer part level 2 and 3 Software selectable ITU-T and ANSI modes Built-in STP capabilities Specialized modes for signaling relay applications and virtual point codes Supports multiple point codes per board
	SCCP	Global title translation Connection oriented signaling Unitdata (UDT) and extended unitdata (XUDT) messages supported
	TCAP	Transaction capabilities application part (TCAP) Software selectable ITU-T and ANSI modes Optimized for high-speed links
	SMS API	Rapid SMSC development (see SMS application note) Automatic HLR lookup Supports MAP GSM phase 1, 2 and 3 Cellular originating and cellular terminating SMS applications supported
	Signaling protocols	MTP, ISUP, ISDN, TCAP, SCCP, GSM MAP, INAP WIN, CAMEL, IS-41, BICC, SIP, SIGTRAN, SIP-I
	Operating system	Linux, Windows, Solaris
	Switching on board	Low latency (<100ms) switching path setup



MPAC 3220
4 E1/T1 configuration



MPAC 3245
8 E1/T1 configuration

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