

IPnexus® SG5601 PRODUCT SHEET

Signaling Gateway Blade



FEATURES

"Load and Go" SS7/IP
Signaling Gateway on a
Blade

Standards-Based IETF
SIGTRAN IP/SS7 Protocols

Reliable and Robust
Software and Hardware

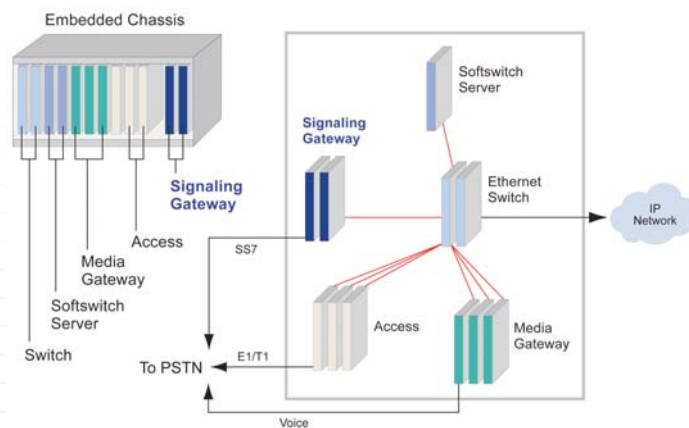
PICMG® 2.16-Compliant

Distributed Fault-Tolerant
Architecture

Up to 32 Links (Distributed)

A Flexible Embedded Solution

Part of our IPnexus® portfolio of products, the SG5601 Signaling Gateway Blade is a robust, turnkey SS7/IP signaling gateway in a standard CompactPCI® form factor that also supports PICMG® 2.16. A true carrier-grade system-in-a-slot, the SG5601 provides a signaling bridge between traditional telephone networks and VoIP architectures and provides SS7 functionality to enable call control and service processing capabilities. Whether your SS7 network is circuit-switched or IP-based, the SG5601 meets your requirements for today and well into the future.



The Signaling Gateway 5601 in an Embedded VoIP Architecture Environment

Key Features

A Complete Signaling Solution

The SG5601 terminates SS7 MTP-2, MTP-3, and SCCP protocol layers and delivers ISUP and other user protocols for full interconnection and support of any SS7 implementation. Multiple applications can be supported via SIGTRAN or UAP TCP associations for up to 16 unique Application Server Processes (ASP), with up to 256 individual routing keys available for SS7 message filtering. When deployed as a Signaling End Point (SEP), signaling gateway, or interconnecting softswitches, media gateways, and other applications, the 5601's software allows it to act as a "virtual switch," allowing access to more voice trunks and wider traffic distribution.

Compact, Low-Cost System-in-a-Slot

The SG5601 boots locally from onboard Flash, independent of the system controller which allows for seamless integration with signaling gateway applications. The blade benefits from the lower production costs associated with embedded solutions, and is sized to grow with your needs. Licensed for up to 16 SS7 links over T1/E1, the SG5601 comes equipped with dual Ethernet ports for multihoming and can be deployed in a distributed environment for added redundancy.



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ORDERING INFORMATION

To discuss specific requirements and/or pricing, contact sales@pt.com.

Supports Latest SS7 over IP Protocols

The SG5601 can be easily integrated into equipment vendor solutions by terminating four to 16 links on a single unit, and provides an IP interface to softswitches and service applications. Compatibility is assured with support for IETF SIGTRAN protocols, such as M2PA, M3UA and SUA, as well as international SS7 variants.

Time-to-Market Solution

For equipment vendors who are developing innovative new products, reducing the delivery time is critical. Having a proven turnkey SS7/IP solution reduces integration activities and allows development teams to focus their efforts to more quickly deliver high-value solutions to their customers.

Superior Reliability and Flexibility

With its distributed software architecture, the hot-swap capability of CompactPCI, and simple provisioning, the SG5601 provides the superior reliability required of carrier class, fault-tolerant, five-nines (99.999%) systems. Its flexibility allows converged network operators to initially deploy with a modest single- or dual-card system and add additional cards as SS7/SIGTRAN traffic grows, making the SG5601 the perfect solution for SS7/IP interworking. Unused T1/E1 channels can also be mapped to the H.110 bus for voice pass-through capability and flexibility.

Technical Specifications

Processor

- 800 MHz PowerPC® processor
- 64-bit data and 32-bit address bus

SS7 Protocols

- MTP Layer 2, MTP Layer 3, SCCP Layer 4
- MTP2, MTP3, SCCP-ITU/ETSI

IP Protocols

- SCTP, SUA, M3UA, M2PA, M2UA, TCP-UAP (proprietary)

SS7 Links

- Non-distributed: Up to 16 SS7 links
- Distributed: Up to 32 SS7 links

Management Interfaces

- Serial RS-232: Text UI
- Ethernet: SNMP, Text UI, Web UI

Physical Interfaces

- SS7: Up to Eight T1/E1 RJ48C ports
- Optional E1 75 Ohm BNC adapters
- IP: Ethernet CompactPCI midplane or three external, RJ45 Ethernet ports (dual networks)

Power

- 22.9 W maximum (11.9 W @ 3.3 V, 10 W @ 5 V)

Memory

- 512 MB dedicated DDR SDRAM
- 128 MB flash PROM
- 256 KB L2 cache

Agency Certifications

- FCC class A, CE, UL/EN 60950, ETSI EN 300 386, designed to NEBS Level 3 requirements
- RoHS compliant

Dimensions

- 6U Eurocard form factor

Environmental

- Operating: 0 to 50°C (32 to 122°F)
- Non-operating: -20 to 80°C (-4 to 176°F)

Maximum Capacity

- SS7 Links - 16
- SS7 Linkset - 16
- Routesets - 512
- Routes per Routeset - four
- Routes - 1024
- M2PA Links - four
- M2PA Linksets - four
- Virtual Point Codes - eight

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