

FEATURES

SS7 Routing and Consolidation

Cost-effective Solution

Exceptional Flexibility – TDM and IP-Based SS7 Links

Network Proven

Cost-Effective



The Cost-Effective, IP-Enabled Platform

Today's network operators continue to face economic pressures, prompting them to seek new solutions that will lower operating costs and improve service quality, while simultaneously providing new revenue-generating services for customers. For smaller service providers, overcoming these realities can be a challenge due to high SS7 link charges and the cost of STP deployment, which has been prohibitively expensive for all but the largest carriers.

PT provides the solution to these challenges with the SEGway™ X201 series platform, which reduces current network costs and provides a platform to bring IP-based services into SS7 networks and SS7 services into the IP telephony world.

Flexible and Reliable Solutions

The SEGway X201 is designed to operate in today's circuit-switched networks and facilitate the transition to an IP-based SS7 network with either circuit or IP-based links. The use of M2PA-enabled devices at the edge further extends the reach of the X201 and enhances flexibility and reliability. Unused T1/E1 channels can also be mapped through for voice pass-through (x-connect) capability.

The X201 scales up to 64 SS7 links, two ATM-HSL, and 16 SIGTRAN links with support for multi-variant SS7 and SIGTRAN protocols. The SEGway X201's I/O options include a full array of physical interfaces, including T1, E1, ATM, and Ethernet.

Comprehensive Feature Set

Signaling Gateway

When configured as a Signaling Gateway node, the SEGway X201 offers the unparalleled performance and functionality demanded from VoIP, wireline, and wireless networks of today and tomorrow. This powerful signaling gateway has all the standard features and functionality expected to support the convergence of legacy SS7 and IP networks.

IP-Edge

The SEGway X201 may also be configured as an IP-Edge solution, which allows carriers to cap their network transport and expansion costs by positioning small, compact, and robust carrier grade devices within local communities of interest, concentrating SS7 traffic, and backhauling it to an IP-enabled core STP over a managed shared-use IP network. SEGway's IP-Edge versatility also includes the ability to include features such as Global Title Translation and Point Code Emulation™.

Point Code Emulation™

PT's Point Code Emulation is a feature that can be used to significantly simplify and de-risk switch migration activities, or allow service providers to grow their signaling networks transparently. This is accomplished by giving the carrier a method to translate between public and private point codes. Private point codes are defined by the carrier, are visible only within the carrier's network, and are associated with a public point code that is visible to the SS7 network.

SEGway™ X201 PRODUCT SHEET

Product Overview

ORDERING INFORMATION

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

Additional Capabilities

The SEGway X201 platform can also be equipped with powerful capabilities, such as protocol conversion and voice pass-through for circuit grooming.

Network-Proven and Standards-Based Solutions

SEGway signaling products have been deployed by OEMs and carriers in wireless and wireline configurations across the globe. They conform to ANSI, ITU, and many other standards. Additional protocol variants are available upon request.

World-Class Support

PT is solely responsible for every aspect of systems development, including hardware, software, integration, and deployment. Our customers benefit from our ability to provide products that are supported directly by our engineering team. Our support includes all aspects of technical, OEM, and end-user support to ensure a successful deployment or product launch. We offer a variety of training programs, installation services, 24x7 support agreements, and software maintenance contracts.

Technical Specifications

Signaling Link Capacity

- SS7 links: 32/64
- M2PA links: 16
- ATM links: 2
- Optional: may be equipped with 64 low-speed links and one ATM high-speed link

Protocols

- SS7: MTP2, MTP3, SCCP (ITU, ETSI, ANSI)
- IP/SCTP: M2PA, M2UA, M3UA, SUA
- ATM AAL5, SSCOP, SSCF

Feature Options

- IP-Edge
- Signaling Gateway
- Point Code Emulation (PCE)

Hardware

- Platform: 1U NEBS-designed 19-in. rack-mount enclosure

Physical Interface

- One (1) I/O slot:
 - Channelized E1/T1 for low-speed links, 8 terminations

System Cards

- System processor for MTP routing, SIGTRAN and OA&M functions

Power and Cooling

- AC single feed: 200 W auto sensing, 115/230 V AC (50/60 HZ)
- DC dual feed: 200 W, -36 to -72 V DC (-48 V DC nominal)
- Cooling: four self-contained fans

Mechanical

- Height: 1U, 44.5 mm (1.75 in.)
- Width: 432 mm (17 in.)
- Depth: 290 mm (11.25 in.)
- Weight: 6.8 kg (15 lb)

Regulatory Compliance

- Designed for NEBS Level 3 and ETSI installations
- RoHS

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