



Highlights

- >> Reduces Network Transport Costs
- >> Reliable Solution for Transporting SS7 over High-Latency Connections
- >> Supports All Major SS7 Variants
- >> Powerful Functionality with Very Small Footprint
- >> Remote Management Capability: SNMP, WebUI, Command Line Interface
- >> NEBS, RoHS Compliant

Reliable SS7 Over IP Transport Solution

SEGway™ 1101 link replacement devices represent the next generation of signaling solutions that are designed to reduce the carrier leasing and provisioning costs associated with dedicated, long-haul SS7 links. Small, compact, and operationally transparent, SEGway 1101s are deployed in pairs and positioned next to wireless or wireline switches and/or STPs.

Telephone operators who want to transition their circuit-switched SS7 signaling to a packet-based IP network are often faced with challenges beyond choosing an alternate signaling network. The SEGway link replacement device works with existing billing and monitoring equipment, making it an ideal solution for carriers who want to migrate their SS7 signaling to an IP-based network today, without the expense of replacing these systems. Each SEGway 1101 has the capacity to handle up to four (SEGway 1101LE) or 16 (SEGway 1101) links, which can originate from different nodes over separate TDM interfaces and can be deployed in a one-to-one or one-to-many configuration.



Reduce Network Transport Costs

Network operators can significantly reduce SS7 transport costs by transporting SS7 traffic over shared-use IP networks instead of over expensive, dedicated TDM circuits. These savings can be substantial both from the edge of networks and where dedicated circuits need to be provisioned in redundant pairs. In many instances, SS7 traffic that originates from end nodes does not fill a complete circuit, resulting in inefficient use of purchased bandwidth. Unused T1/E1 channels can also be used for voice pass-through or cross-connect capability for added flexibility.

Reliable SS7 Transport

A unique feature of the SEGway 1101 is its ability to deliver reliable SS7 signaling transport over networks that may not conform to stringent signaling delay requirements. The ability to operate in high-latency environments, such as satellite and IP networks, allows operators flexibility that is not available with other solutions.



SEGway™ 1101

Link Replacement Device

Ordering Information

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

Performance Technologies' SEGway™ products use the latest standards, including the IETF's Stream Control Transmission Protocol (SCTP) and the Signaling Transport Working Group's (SIGTRAN) SS7/IP interworking protocol, to ensure the same high level of reliability when transporting messages over IP as with transporting messages over TDM circuits. Performance Technologies was the first company to support SCTP/SIGTRAN solutions, with live customer deployments around the world since February 2001. Our experience and standards-based approach benefit network operators worldwide.

International Compatibility

All SEGway products support many international variants of SS7, enabling them to be deployed in virtually every SS7 network throughout the world with support for T1/E1 (120 and 75 Ω) interfaces.

Powerful Functionality with Small Footprint

Each SEGway 1101 is designed to be NEBS Level 3 compliant with Telcordia® GR-1089-CORE and Telcordia GR-63-CORE for installation in a central office. Powerful and highly reliable, the SEGway 1101 takes up 1.75 in. (1U) of space in a standard telecom rack.

Network Transparency

Today's network operators are faced with many challenges, including point code preservation, network configuration, and IP network provisioning. The SEGway 1101 overcomes these challenges with its simple design and intuitive human interface (GUI), and does not require a point code. Migration issues are eliminated by adding new links over IP and retiring the existing TDaM links.

Technical Specifications

Management Interfaces

- SNMP, WebUI, Text UI

- DC dual feed
- 200 W, -36 to -72 V DC
- (-48 V DC nominal)

Network Interfaces

- SS7: 1101LE – four SS7 links; 1101 – 16 SS7 links
- IP: Two 10/100/1000 Mbps Ethernet ports (dual networks) and one 10/100 Mbps monitor port

Physical Interfaces

- Eight RJ48C T1/E1
- Optional E1 75 Ω BNC adapters
- Two RJ45 Ethernet (dual network)
- One RJ45 Ethernet (monitor/management)

Mechanical

- Height: 1U (44.5 mm/1.75 in.)
- Width: 432 mm (17 in.)
- Depth: 290 mm (11.25 in.)(AC), 343mm (13.5 in.) (DC)
- Enclosure: 19- or 23-in. rack-mount
- Mounting points: Front/mid/custom
- Cooling: Four self-contained fans

Environmental

- Operating: 0 to 55°C (32 to 131°F)
- Storage: -20 to 70°C (-4 to 158°F)
- Flammability Rating: UL94-V0

Power Options

- AC single feed
- 200 W auto sensing, 115/230 V AC, 50/60 Hz

Regulatory Compliance

- UL, cUL and EN/IEC 60950
- CE Marking: Low Voltage Directive
- FCC Part 15
- EMC Directive 89/336/EEC
- NEBS Level 3
- ETSI EN 300 386, 386-2 and 132-2
- RoHS Compliant



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