

An advanced signaling protocol converter designed to facilitate interoperability between incompatible communication networks.

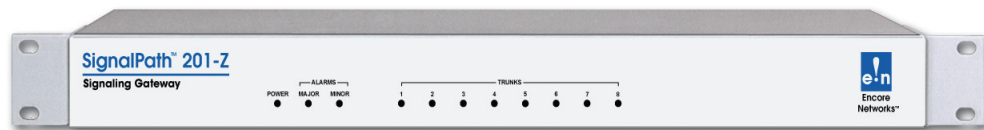
SP201-Z™ Signaling Gateway

The SignalPath™ 201-Z (SP201-Z) is an advanced signaling protocol converter designed to facilitate interoperability between incompatible communication networks. With the SP201-Z, carriers can inexpensively provide seamless connections between networks with conflicting types of out-of-band signaling.

Many types of out-of-band signaling protocols exist globally. Different countries have different protocols simultaneously in use within its networks. The SP201-Z breaks down the communication barriers presented by these different protocols and enables the flow of information across any network.

The SP201-Z increases the carriers' potential network reach in a cost-effective fashion by eliminating the need for expensive network upgrades.

SignalPath™ 201-Z



SUPERIOR MAINTENANCE AND DIAGNOSTICS

- ▶ Multiple maintenance features enable quick and cost-effective resolution of network problems.
- ▶ Trace functionality is available to aid in trouble-shooting configuration and network problems.
- ▶ Visual and dry contact alarms allow for remote and local monitoring.
- ▶ Remote management capabilities enable out-of-band console port access.

COMPACT CHASSIS DESIGN

- ▶ The SP201-Z features a compact 1U height designed for budgeted space, with a capacity of up to four E1 or T1 interfaces for carrier locations with low-end requirements.
- ▶ Chassis-based, the SP201-Z is designed specifically for today's high standards in the communications environment.

EXTENSIVE PROTOCOL SUPPORT

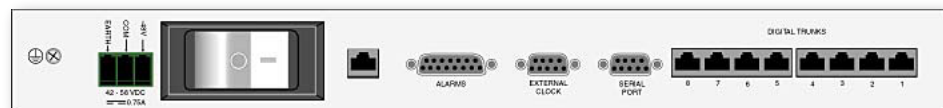
The following protocols are available, as well as a wide variety of custom variants:

- ▶ ANSI SS7/ITU C7
- ▶ ANSI SS7/NI2 ISDN
- ▶ ANSI SS7/ETSI ISDN
- ▶ ITU C7/ETSI ISDN

OTHER PRODUCT FEATURES

- ▶ Standard connections (RJ48, BNC)
- ▶ Up to four E1 or T1 trunks (full duplex, eight ports)
- ▶ Up to 120 DS0s per chassis
- ▶ DPC routing
- ▶ ANI substitution

SignalPath™ 201-Z Back



TECHNICAL SPECIFICATIONS

ARCHITECTURE

High performance RISC-based

STANDARDS CONFORMANCE

R2: Q.400–Q.490
DTMF: BellCore TR-TSV-002275, Subsection 6.13
ETSI ISDN: ETSI 300-102, Q.931, Q.921
NI2 ISDN: BellCore TR-NWT-001268, TR-NWT-002343; Q.931, Q.921

AGENCY COMPLIANCE

Safety: EN 60950, European Safety (CE Mark)
 UL 1950 3rd Edition, U.S. Safety
Emissions: EN 55022: 1998 (Europe); FCC Part 15, Sub-Part B, Class A (U.S.)
Immunity: EN55024: 1998
Belcore Emissions & Immunity: GR-1089-CORE, Section 3

PHYSICAL SPECIFICATIONS

Height: 1.7 in. (4.32 cm)
Width: 19 in. (48.26 cm)
Depth: 10 in. (25.4 cm)
Power: -42 to -56 VDC
 100 to 240 VAC, 50 to 60 Hz
Temperature: 32° to 122° F (0° to 50° C)
Humidity: Up to 95% non-condensing
Altitude: Up to 10,000 ft. (3,048 m)

SYSTEM CAPACITY

Interfaces: Up to four E1 or T1 trunks (or eight full duplex trunks) per chassis
Channels: Up to 31 per trunk; up to 248 per chassis
SS7/C7: Four per chassis
ISDN D Channels: Four per chassis
Destination Point Codes: One per trunk; up to 4 per chassis

INTERFACE SPECIFICATIONS

Framing: E1: G.732 or G.706;
 T1: D4SF or D4ESF
Bit Rate: E1: 2,048 Mbps;
 T1: 1.544 Mbps
Clocking: E1: ± 30 ppm internal;
 E1: ± 100 ppm external;
 T1: ± 30 ppm internal
 T1: ± 150 ppm external
Impedance: E1: 120 ohm balanced;
 E1: 75 ohm unbalanced;
 T1: 100 ohm balanced
Coding: E1: AMI or HDB3
 T1: AMI or B8ZS
Alarms: E1 loss of carrier signal, multi-frame carrier signal, sync; alarm indication signal (AIS);
 receipt of remote alarm; receipt of multi-frame remote alarm
 T1 loss of carrier signal; loss of frame; receipt of alarm indication signal (AIS); receipt of
 remote alarm
Diagnostics: E1/T1: signaling state report, digit report
Performance: E1: G.703, G.706, G.732, G.823
 T1: ATT Pub. 62411



Specifications subject to change

