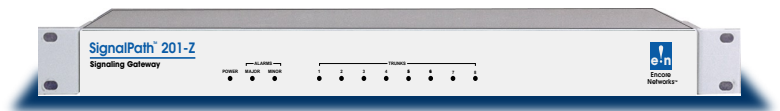


SignalPath™ 201-Z**SP201-Z Signaling Gateway**

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.

EXTENSIVE PROTOCOL SUPPORT

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

- ▶ ANSI SS7/ITU C7
- ▶ ANSI SS7/N12 ISDN
- ▶ ANSI SS7/ETSI ISDN
- ▶ ITU C7/ETSI ISDN

SUPERIOR MAINTENANCE AND DIAGNOSTICS

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

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

TECHNICAL SPECIFICATIONS

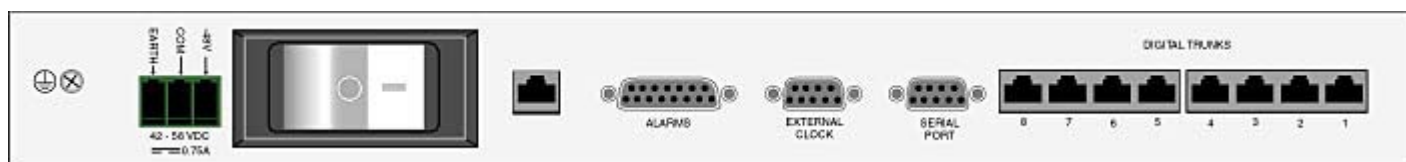
STANDARDS CONFORMANCE	SS7	BellCore TR-NWT-00246, ANSI T1.111a, T1.112, T1.113a, T1.114, T1.116, T1.234–T1.236
	C7	ITU-T White Book: Q.767, Q.701– Q.704, Q.705, Q.708, Q.709, Q.780–Q.782, Q.784, Q.788
	ETSI ISDN	ETSI 300-102, Q.931, Q.921
	NI2 ISDN	BellCore TR-NWT-001268, TR-NWT-002343; Q.931, Q.921

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	Physical	
	<i>Height</i>	1.75 in. (4.45 cm)
	<i>Width</i>	19 in. (48.26 cm)
	<i>Depth</i>	10 in. (25.4 cm)
	Input	
	<i>Power</i>	-42 to -56 VDC 100 to 240 VAC, 50 to 60 Hz
	Environmental	
	<i>Temperature</i>	32° to 122° F (0° to 50° C)
	<i>Humidity</i>	Up to 95% non-condensing
	<i>Altitude</i>	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



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