

SignalPath™ 201

SP201 Signaling Gateway

The SignalPath™ 201 (SP201) is an advanced signaling protocol converter designed to facilitate interoperability between incompatible communication networks. The SP201 enables a seamless interface between in-band and out-of-band networks, and between out-of-band networks and other out-of-band networks.

Different types of communication protocols, both in-band and out-of-band, exist globally. One country could have up to six or seven different protocols simultaneously in use within its networks. The SP201 breaks down the communication barriers presented by these different protocols and enables the flow of information across any network.

Not only can you increase your potential to connect to a larger portion of the world market, but you can also eliminate charges you may be currently paying to one or more companies for network connections. This means more revenue in your corporate pocket.





EXTENSIVE PROTOCOL SUPPORT

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

- ◆ R1, R2, DTMF
- ◆ SS7 (ANSI), C7 (ITU-T)
- ◆ ETSI PRI ISDN, NI2 ISDN
- ◆ Custom protocol variants

COMPACT CHASSIS DESIGN

- ◆ The SP201 features a compact 1U height designed for budgeted space, with a capacity of up to 4 E1 or T1 interfaces for the customer with low-end requirements.
- ♦ Chassis-based, the SP201 is designed specifically for today's high standards in the communications environment.

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.

OTHER PRODUCT FEATURES

- ◆ Standard connections (RJ48, BNC)
- ◆ Up to 4 E1 or T1 trunks (full duplex, 8 ports)
- ♦ Up to 120 DS0s per chassis
- ♦ Dynamic bi-directional *μ*-Law/A-Law T1/E1 conversion
- → 19 in. (48.26 cm) rack-mountable chassis

Sold by - Teleprime Inc. Encore's Network Solutions Channel Partner • 1305 Wiley Road • Ste 102 • Schaumburg • IL • 60173 Tel: 1-(847)-252-7100 • Fax: 1-(847)-252-7101 • Email: sales@teleprime.com • support@teleprime.com Web: www.teleprime.com

TECHNICAL SPECIFICATIONS

STANDARDS CONFORMANCE

R1 Q.310-Q.331

R2 Q.400-Q.490

DTMF BellCore TR-TSV-002275, Subsection 6.13

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, Class A

FCC Part 15, Sub-part B, Class A

Immunity EN55024: 1998

Belcore GR-1089-CORE, Section 3

Emissions & Immunity

HARDWARE SPECIFICATIONS

Physical

Height 1.75 in. (4.45 cm) Width 19 in. (48.26 cm) Depth

10 in. (25.4 cm)

Input

-42 to -56 VDC Power

100 to 240 VAC, 50 to 60 Hz

Environmental

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

Aggregate Cards One per chassis

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

Signaling Links

INTERFACE SPECIFICATIONS

E1: G.732 or G.704 **Framing**

T1: D4SF or D4ESF

Bit Rate E1: 2,048 Mbps

T1: 1.544 Mbps

Clocking E1: \pm 30 ppm internal

E1: ± 100 ppm external T1: \pm 30 ppm internal T1: \pm 150 ppm external

E1: 120 ohm balanced **Impedance**

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.704, G.732, G.823

T1: ATT Pub. 62411



Specifications are subject to change without notice. Other protocols or variants may be under development or could be considered for development based on customer requirements.