SignalPath™ 201-SA Universal Signaling Adapter

The SignalPath™ 201-SA (SP201-SA) is a universal signaling adapter designed to provide low-cost, optimal signaling conversion in PBX, IP-PBX, and video-conferencing applications. Enterprise vendors with customers that require connectivity between their PBX applications and networks in countries using R2 signaling are rewarded with immediate business opportunities that were previously inaccessible due to signaling incompatibilities.

The SP201-SA, designed for fast, easy, economical integration of IP and CAS networks, quite simply connects PBX type equipment with a digital T1 or E1 interface to R2 or legacy signaling equipment with a digital T1 or E1 interface in the PSTN.

Its very small desktop footprint makes it easy to co-locate the SP201-SA with PBX equipment. With its single, bi-directional T1/E1 interface, this signaling solution is the best cost-effective choice for enterprise applications, while offering unsurpassed flexibility. Software-selectable menu options for connections simplify installation so much that setup time is minimal. Standard RJ48 and BNC interfaces provide T1 and E1 connectivity to equipment on the customer premises.

NEW PRODUCT!

INTERNATIONAL PROTOCOL SUPPORT

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

- R2 to ETSI ISDN
- DTMF to ETSI ISDN
- R2 to NI2 ISDN
- DTMF to NI2 ISDN
- R1 to NI2 ISDN

COMPACT DESIGN

- The SP201-SA is an extremely compact unit designed for limited space. It is easily placed on top of existing PBX equipment.
- The SP201-SA satisfies the need for T1 and E1 connection via one bi-directional interface.
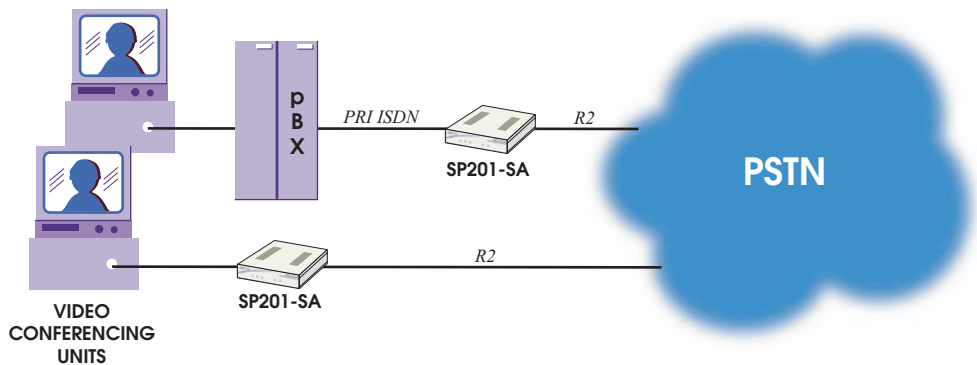
STANDARD INTERFACES

- RJ48 connector for T1
- RJ48 connector for E1-120 ohm
- BNC connector for E1-75 ohm

STANDARD PORT CONNECTIONS

- T1 to E1-75 ohm
- E1-75 ohm to E1-75 ohm
- T1 to T1
- E1-120 ohm to E1-75 ohm
- E1-120 ohm to E1-120 ohm
- T1 to E1-120 ohm

OTHER FEATURES

- ISDN rate conversion
- Dynamic bi-directional A-Law to μ-Law T1/E1 conversion

STANDARDS CONFORMANCE

R1	Q.310–Q.331
R2	Q.400–Q.490
DTMF	BellCore TR-TSV-002275, Subsection 6.13
ISDN-ETSI	ETSI 300-102, Q.931, Q.921
ISDN-NI2	BellCore TR-NWT-001268, TR-NWT-002343; Q.931, Q.921

DESIGNED FOR COMPLIANCE WITH

Safety	EN 60950, European Safety (CE Mark)
Emissions	UL 1950 3rd Edition, U.S. Safety FCC Part 15, Sub-part B, Class A
Immunity	EN 55024; 1998

HARDWARE SPECIFICATIONS

Physical

Height	1.7 in. (4.32 cm)
Width	8.36 in. (21.34 cm)
Depth	9.0 in. (22.86 cm)

Input

Power	100 to 240 VAC, 50 to 60 Hz

Environmental

Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 85% non-condensing
Altitude	Up to 10,000 ft. (3,048 m)

SYSTEM CAPACITY

Interfaces	One E1/T1 in, One E1/T1 out, any combination
Channels	Up to 30

INTERFACE SPECIFICATIONS

Framing	E1: G.732/G.704 T1: D4SF/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.704, G.732, G.823 T1: ATT Pub. 62411