



# PS-300X

Voice Signaling Converter for SS7, C7, ETSI PRI, Qsig, R2, V5.2 and Analog FXO/FXS

## Highlights

- Converts between any SS7, C7, ETSI PRI, Qsig, R2 or V5.2
- Supports up to 50 SPANs
- Supports up to 64 Signaling Links
- SS7 (MPT, TUP, ISUP)
- Stratum 3 Internal Clock
- Digit routing and plans
- Black and White lists
- Virtual callers
- Caller ID Manipulation
- AC or DC power
- Graphical programming

## Applications

- Solve compatibility issues between telecom equipment
- Provide access to SS7 or C7 Networks
- Allow legacy voice equipment access to newer technologies
- Allow IP PBX or Voice Switches access to older telephone networks.
- Provide digit and caller ID manipulation
- Convert Digital to Analog FXO/FXS

## Convert any voice signaling

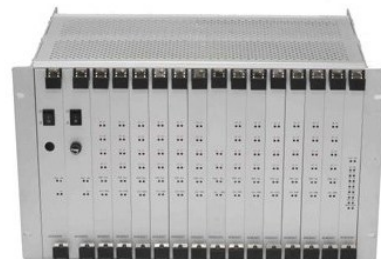
**PS-300X** is a high performance, high density voice signaling converter offering support for SS7, C7, R2, Qsig, ETSI PRI, 5.2 and Analog FXO/FXS protocols.

**PS-300X** supports many popular features beyond the signaling conversion functionality. There is support for Digit and Caller ID manipulation, Virtual callers and black/white lists.

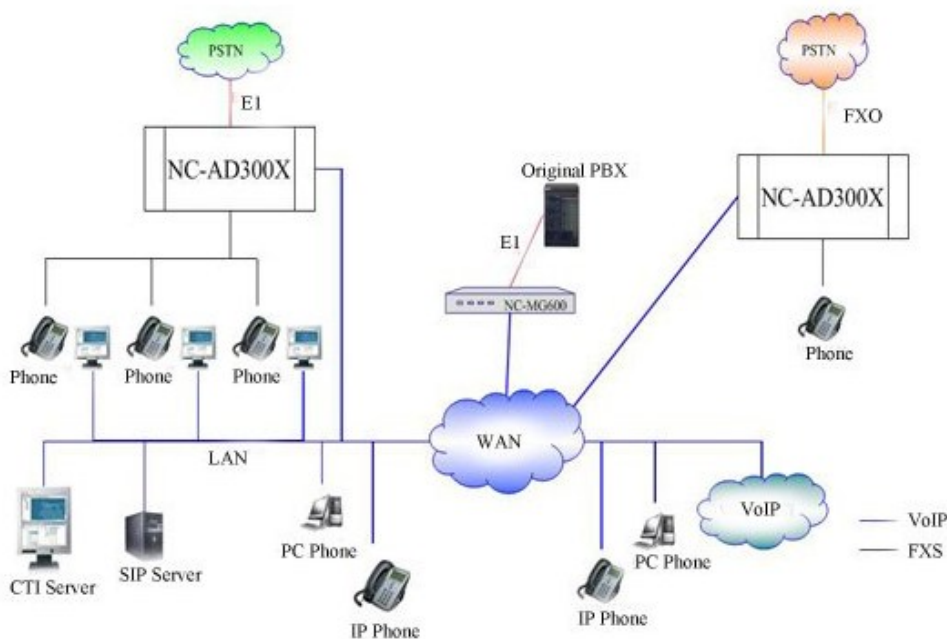
The PS-300X can act as a standalone switch for test labs and production environments. Supports API link with a PC/Server for Call Center, Signal collection, Voice Recording and other applications.

### Simple Programming:

- Provided with a graphical windows management interface.
- Serial or Ethernet interfaces.
- Simple digit and caller ID manipulation menus.



The PS-300X is compact 6U high rack mountable chassis with support for AC or DC Power. The unit has LED indicators for quick troubleshooting and network health.



NC-AD300X Application

Figure 1



# PS-300X

Voice Signaling Converter for SS7, C7, ETSI PRI, Qsig, R2, V5.2 and Analog FXO/FXS

## STANDARDS CONFORMANCE

<b>R2</b>	Q.400-Q.490 - Multiple Variants
<b>V5.2</b>	
<b>SS7</b>	BellCore TR-NWT-00246, ANSI T1.111a, T1.112, T1.113a, T1.114, T1.116, T1.234-T1.236
<b>C7</b>	ITU-T White Book: Q.767, Q.701- Q.704, Q.705, Q.708, Q.709, Q.780- Q.782, Q.784, Q.788
<b>ISDN-ETSI</b>	ETSI 300-102, Q.931, Q.921
<b>Qsig</b>	BellCore TR-NWT-001268, TR-NWT-002343; Q.931, Q.921
<b>Analog</b>	FXO and FXS

## HARDWARE SPECIFICATIONS

### Physical

<b>Height</b>	10.5 in. (240 mm)
<b>Width</b>	19 in. (480 mm)
<b>Depth</b>	10 in. (290 mm)
<b>Input Power</b>	-42 to -56 VDC 240 VAC, 50 to 60 Hz

### Environmental

<b>Temperature</b>	32° to 140° F (0° to 60° C)
<b>Humidity</b>	Up to 80% non-condensing
<b>Altitude</b>	Up to 10,000 ft. (3,048 m)

## SYSTEM CAPACITY

<b>Aggregate Cards</b>	Twelve per chassis
<b>Interfaces</b>	Up to 25 E1 or T1 trunks (or 50 full duplex trunks) per chassis
<b>Channels SS7/C7 Signaling Links</b>	Up to 31 per trunk; up to 496 per chassis up to 16 per chassis

## INTERFACE SPECIFICATIONS

<b>Framing</b>	E1: G.732 or G.704
<b>Bit Rate</b>	E1: 2,048 Mbps
<b>Clocking</b>	E1: +/- 30 ppm internal - Stratum 3 Clock
<b>Impedance</b>	E1: 120 ohm balanced E1: 75 ohm unbalanced
<b>Coding</b>	E1: AMI or HDB3
<b>Alarms</b>	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
<b>Diagnosis</b>	E1: signaling state
<b>Performance</b>	E1: G.703, G.704