

System Engineering International NT1's



Network Termination Units (NT1's) are required for each ISDN line. The NT1 converts the 2-wire Central Office U-interface into the 4-wire S/T-interface used by the ISDN device at the customer premises.

The SEI industry standard NT1 B300 is used for both stand-alone and rack-mounted applications. SEI's PowerRack 300-U series is specifically designed to provide integrated caging, power, and battery backup for NT1 B300's and associated telephones. The NT1 B300 can also be installed into an SEI 300R-U NT1 cage. This cage is compatible with legacy AT&T/Lucent 1145 power systems, or can be used with SEI's DP series distributed power systems. Customers desiring high density in industry standard, rack-mounted applications will find SEI's NT1 P230 circuit card an ideal solution. The PowerRack 230, PowerRack48, and PowerRack 96 provide integrated caging, power and battery backup for NT1 P230's and associated telephones. The P230 can also be installed in a stand alone Lucent NT1 M-210 cage. SEI also offers the Lucent NT1-D30, which integrates 12 NT1's with associated RJ11 output distribution into a single card. Integrated caging, power, and battery backup for this maximum density NT1 solution is provided by the PowerRack 180.



All SEI B300 and P230 NT1's provide two status indicators, protection devices on all external interfaces, low power consumption, easily accessible configuration switches, advanced SMD technology, self-testing features, and multipoint capability. Lucent branded NT1's are also available.

When purchased with a PowerRack, SEI will install and individually test each NT1, providing the customer with a fully configured solution suitable for immediate installation:

- Pre-tested equipment that virtually eliminates out of box failures
- Complete integrated package for reduction in installation time

Ordering Information

Model #	Description	Warranty
GGC-B300	Generic B300 NT1 for stand alone and PR300-U	5 years
GGC-P230	Generic P230 circuit card NT1 for PR230, PR48, and PR96	5 years
Lucent-B300	Lucent brand B300 NT1 for stand alone and PR300-U	1 year
Lucent-P230	Lucent brand P230 circuit card NT1 for PR230, PR48, and PR96	1 year
Lucent-D300	Lucent brand D300 NT1 for DP series and PR180	1 year
300R-U	NT1 cage for 12 B300's with both S/T RJ45 jacks and 50 pin amphenol output	
230R	NT1 cage for 12 P230 circuit cards with 50 pin amphenol output	
M210	NT1 cage for 12 P230 circuit cards	

Technical Specifications (GGC-B300 & GGC-P230)

Network Interface (U Interface)	Dip Switches	Environmental	Dimensions
2B1Q per ANSI T1.691-1992 2 wire duplex transmission with echo cancellation 2B + D synchronization plus maintenance data +/- 2.5V per peak nominal Surge protection One RJ - 45 jack (B300 only)	Fixed/adaptive timing mode Termination resistors: P230 - 100Ω/50Ω/un-terminated B300 - 100Ω/50Ω/un-terminated	Operating temperature: 0° C to 50° C Storage temperature: -40° C to 60° C Operating humidity: 90% non-condensing Storage humidity: 95% non-condensing	P230 – 7.1" x 4.2" x 0.8" B300: 4.5" x 2.1" x 1.1"
Terminal Interface (S/T Interface)	Power Feed	Standards	LED Indicators
AMI modified, per ANSI T1.605 - 1991 4 - wire duplex transmission +/- 0.75V per peak nominal Point-to-Point or multi-point configuration P230: one 2 x 10 DIN for cage mount B300: one 2 x 4 DIN for cage mount plus two RJ45 jacks for CPE	To S/T: PS1 > 4 watt, 36 – 56 Vdc PS2 > 22 watt, 36 – 56 Vdc Over current cut-off: PS1 > 100mA PS2 > 460mA	FCC Part 15 Class B FCC Part 68 UL 1950 CAN/CSA C22.2 – GB300	U and S/T interface status Power status lamp

To Order Contact ISDN Sales at 1-800-765-4734
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