

# 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 300e 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 300 R-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. For stand-alone operation, the DP20b family of products supply power and battery backup for up to 3 B300 NT1s and 6 ISDN phones.



Customers desiring high density in industry standard, rack-mounted applications will find SEI's NT1 P230 circuit card an ideal solution. The PowerRack 230e and the PowerRack 96e 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.

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**

## Ordering Information

Model #	Description	Warranty
GGC-B300	Industry Standard B300 NT1 for stand alone and PR300e	5 years
GGC-P230	Industry Standard P230 circuit card NT1 for PR230e and PR96e	5 years
Lucent-B300	Lucent brand B300 NT1 for stand alone and PR300e (if available – no longer manufactured)	1 year
Lucent-P230	Lucent brand P230 circuit card NT1 for PR230e and PR96e (if available – no longer manufactured)	1 year
B-B300	Generic B300 NT1 for stand alone and PR300e	2 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**  
Visit us on the web at [www.seipower.com](http://www.seipower.com)