Model 800 Series Modems

Models 800, 800NY, 804, 896, 819 Cards

FEATURES

* **1200 to 19,200 bps**

* **Bell 202T Type (400 only)**

* **Model 170/179 Style Card**

* **Temperature Hardened**

* **2 & 4 Wire Switchable**

* **Anti-Streaming Option**

* **Switch Selectable Timings**

Description

The GDI Series 800 Modems are the most versatile models for private wire and Telco 3002 interconnect. Each modem card consists of two independent modems reducing the amount of modem cards required in your traffic management center. All GDI 800 series modem cards are fully compatible with the GDI 400 series modems. There are 5 versions for different applications. Begin with the industry standard Model 800 at 1200 bps including anti-streaming and 2400 bps for the Model 804. Then raise the speed to 9600 or 19,200 bps for Models 896 and 819 respectively. They are rugged, temperature tested modems designed for the transportation industry. Directly connected to traffic controllers or variable message signs, they communicate at 1200 bps over leased telephone lines or higher speeds via private wire interconnect. Both point-to-point and multi-drop, the GDI Series 800 modems offer data rates of 1200 to 19,200 bps.

Specifications — General

Environmental Operating Ranges

Temperature Range	-37 to + 74°C
Humidity	95% non-condensing

Modem

Modulation	Frequency Shift Keying
Data Interface	RS-232C compatible Model 800 for card
Mechanical	Model 170/179 Style Card

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Models, Frequencies & Data Rates

Model	Mark Hz	Space Hz	Soft Carrier Hz	Data Rate
800	1200	2200	900	0-1200
800NY	1300	2100	900	0-1800
804	2400	4400	1800	0-2400
896	11200	17600	7800	0-9600
819	19200	38400	13800	0-19200

Power Requirements

Card:

+12 volts and 12 volts ± 5% @ 75 mA

Indicators

XMT	Transmit Data
RCV	Receive Data
RTS	Request To Send
CTS	Clear To Send
DCD	Carrier Detect

Timing (Switch Selectable)

Function	All other Models
RTS—CTS	6 or 12 mS + 2mS
CAR Delay	4 or 8 mS + 2mS
Soft Carrier Off	5 or 10 mS + 2mS
Rcvr Squelch	3 or 6 mS + 1mS
Anti-Streaming	Switchable on/off

Receiver Characteristics

Dynamic Range	+3dBm to –48dBm
Carrier Detect Threshold	-42 ≥ 3 dBm
Carrier Detect Hysteresis	3dB
Demodulator Distortion	<10% peak

Transmit, Level & Duplex

-8 dBm to 0 dBm potentiometer adjustable
2 wire half duplex, 4 wire full duplex switch selectable
Transmit Frequency Tolerance +1%

Multidrop Capability

Recommend a maximum of 8 units per line. More can be used if the line is short, low noise or controller software configuration allows.

All Model 800 modems above are enhanced replacements designed to take advantage of newer traffic controllers and other products capable of higher speeds. System communications with our Series 800 modems can be improved due to the selectable timing, anti-streaming and transmitter options.

Model Numbers for Ordering

Card Model

800

800NY

804

896

819

Specifications subject to change without notice

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