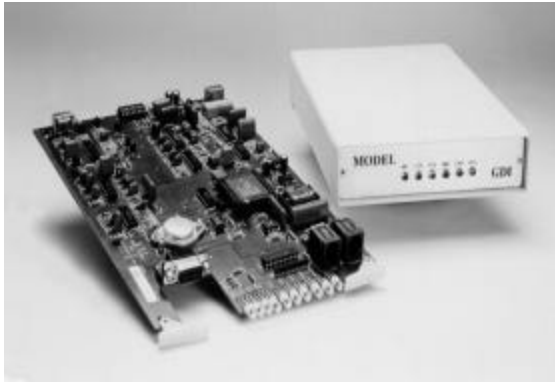




Model SM2400 Series 2400 bps Dialup Modem



Features

- * Standard "AT" Command Set
- * RS232 Interface
- * Call Monitor Speaker
- * Error Correction / Data Compression
- * Integral Power Supply
- * Rugged Metal Enclosure
- * Wide Operating Temperature Range -37 to +74°C
- * Standalone or 170 Plug-in Card

Description

The GDI Smart Modem SM2400 is an AT command set compatible dial-up modem. This modem has been designed specifically for the demands of the traffic industry. The GDI Smart Modem SM2400 can be used to communicate with traffic controllers, variable message signs, dial-up to the web or most any other dial-up application that requires communications over the public switched network. The GDI Smart Modem SM2400 offers 3 data rates from 300 to 2400 bps. The GDI Smart Modem SM2400 is "AT" command set compatible with auto-dial, auto-answer, and auto-speed detect. The GDI Smart Modem is compatible with the GDI Smart Modem SM2400 dial-up modem. The internal fused power supply eliminates the common "brick" external power supply. The unit is also available in a 170 Plug-in form factor.



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Specifications

General

Modulation	Quadrature Amplitude Modulation FSK and DPSK
Serial Interface	RS232C compatible, Asynchronous 7 data bits with any parity type, 1 or 2 stop bits, or 8 data bits with Mark or No parity, 1 or 2 stop bits
Data Rates	2400, 1200, 300 bps Automatic selection for highest error free rate
Compatibility Modes	Bell 103, Bell 212A, V.22, V.22 bis, Asynchronous full or half duplex Automatic/manual call originate and answer
PC Compatible	Serial Plug and Play

Data & Line Interfaces

Data	RS232C and RS485 via DB-9S
Phone handset	RJ11
Phone line	RJ11

Telephone Line Interfaces

FCC compliant	Part 68 and Part 15
Line Interface	RJ11, 600 ohms, Public Switched Network
Ring Equivalent	1 Bel
Return Loss	Better than 14dB from 200 to 4000 Hz
Dialing	Pulse and Tone
DTMF	Duration and spacing 50 to 255 ms

Receiver Performance

Signal to Noise Ratio	-10 dB
Dynamic Range	-10 dBm to -45 dBm

Indicators

SD, RD, OH, CD,AA and HS

Receiver Carrier Detect

Off-to-On Threshold	-43 dBm
On-to-Off Threshold	-48 dBm
Hysteresis	Greater than 2 dB

Transmit and Receive Frequencies

Data Carrier	1800 +/- 0.5 Hz
Calling Tone	1300 +/- 10 Hz
Answer Tone	2100 +/- 15 Hz
Receive Frequency	+/- 14 Hz
Transmit Level	Fixed at -11 +/- 2 dBm

NVRAM

Allows storage of two user profiles and four 36 digit dial strings. Eliminates switches and jumpers.

Power Requirements

SM2400SA	
Voltage	90 to 130 VAC (Standard) 180 to 260 VAC (optional)
Frequency	60 Hz +/- 3 Hz
Power	4 watts maximum
SM2400	
Voltage	+12 and -12 VDC +/- 5%
Power	200 ma

Mechanical

SM2400SA	
Size	1.5" H x 5.5" W x 8.5" D
Weight	2 lbs

Environmental

Temperature Range	-37 to 74°C
Humidity	5 to 95% non-condensing

Models:

SM2400 (170 Plug-in)
SM2400SA (standalone)

Specifications subject to change without notice

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