



Model SM336 Series 33.6K Dialup Modem



Features

- * Standard "AT" Command Set
- * RS232 or RS485 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 SM336 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 SM336 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 SM336 offers 26 data rates from 300 to 33,600 bps. The GDI Smart Modem SM336 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 SM336 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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Model SM336 Series

33.6K Dialup Modem

Specifications

General

Modulation	Quadrature Amplitude Modulation FSK and DPSK
Serial Interface	115.2 kbps max, V.24/V.28, V.34 RS232 or RS485 compatible
Data Rates	33.6, 31.2, 28.8, 26.4, 24, 21.6, 19.2, 16.8, 14.4, 12, 9.6, 7.2, 4.8, 2.4, 1.2, .3 Kbps Automatic selection for highest error free rate
Compatibility	<u>As a Data Modem</u> Bell 103, Bell 212A, V.22A/B, V.22bis, V.32, V.32bis, and V.34 <u>As a Fax Modem</u> V.17, v.21 channel 2, v.27ter, v.29, and V.33
Data Compression	V.42bis, MNP5
Error Correction	V.42 LAPM, MNP2-4, MNP10
Loop Tests	V.54 Loop 2 (RDL) and Loop 3 (LAL)
Modes	Asynchronous full or half duplex Automatic/manual call originate and answer
PC Compatible	Serial Plug and Play

Data & Line Interfaces

Data	RS232C or RS485 via DB-9S Specified at time of order
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

Indicators

Power, TXD, RXD, DCD, DTR, RI, DSR/OFF HOOK

Receiver Performance

Signal to Noise Ratio	-26 dB
Dynamic Range	-12 dBm to -42 dBm
Ring Detect Sensitivity	38 VRMS

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

Switches

DTR	On/Off
RS485 Data	Standard or Inverted
RS485 Control Lines	Standard or Inverted

Power Requirements

SM336SA	
Voltage	90 to 130 VAC (Standard) 180 to 260 VAC (optional)
Frequency	60 Hz +/- 3 Hz
Power	6 watts maximum

SM336

Voltage	+12 & -12 VDC ± 5%
Power	200 ma

Mechanical

SM336SA	
Size	1.54" H x 5.75" W x 8.4" D
Weight	2 lbs

Environmental

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

Models:

SM336 (170 Plug-in)
SM336SA (standalone)

Specifications subject to change without notice

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