



# Model SM560SA 56K Dialup Modem



## Features

- \* V.90/K56flex Autospeed
- \* Error Correction / Data Compression
- \* Call Monitor Speaker
- \* Standard "AT" Command Set
- \* Integral Power Supply
- \* Dual RS232/RS485 Interface
- \* Wide Operating Temperature Range -37 to +74°C

## Description

The GDI Smart Modem SM560SA 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 SM560SA 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 SM560SA offers 26 data rates from 300 to 56,000 bps. The GDI Smart Modem SM560SA 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 SM336A dial-up modem. The internal fused power supply eliminates the common "brick" external power supply.



### Industrial Grade Modems

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# Model SM560SA

## 56K Dial-up Modem

### Specifications

#### General

Modulation	Quadrature Amplitude Modulation FSK and DPSK
Serial Interface	115.2 kbps max, V.24/V.28, V.34 RS232/RS485 compatible
Data Rates	56, 54-36, 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 and 0.3 Kbps Automatic selection for highest error free rate 230,400 maximum throughput
Compatibility	<u>As a Data Modem</u> Bell 103, Bell 212A, V.22A/B, V.22bis, V.32, V.32bis, V.34, and V.90/K56Flex <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 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

#### 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

#### Indicators

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

#### Switches

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

#### Power Requirements

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

#### Mechanical

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

Specifications subject to change without notice

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