



# 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/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 As a Data Modem  
Bell 103, Bell 212A, V.22A/B,  
V.22bis, V.32, V.32bis, and V.34  
As a Fax Modem  
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

#### 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 -1 +/- 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)  
60 Hz +/- 3 Hz  
6 watts maximum

Frequency  
Power  
SM336

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

#### Mechanical

SM336SA  
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:

SM336 (170 Plug-in)  
SM336SA (standalone)

Specifications subject to change without notice

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