



# SmartSCM<sup>TM</sup> SocketModem<sup>TM</sup>

## The Simple, Time-To-Global Market Embedded Modem Solution

### One Product for Many Markets

Conexant's SmartSCM (single-chip modem) SocketModem is the simple, cost-effective way to add an embedded modem to your products. It is pre-tested to ensure regulatory compliance in all major markets. Its compact design makes it ideal for just about any application. And with built-in support for 35 countries, the SmartSCM SocketModem allows you to address the needs of multiple markets with a single product design.

The SmartSCM SocketModem is an embedded analog modem solution designed for applications that require data exchange over standard telephone lines. It supports data speeds up to 56 Kbps and fax speeds up to 14.4 Kbps.

### Compact, Cost-Effective Design

The SmartSCM device used in the SocketModem combines the controller, data pump and SmartDAA<sup>TM</sup> (data access arrangement) system-side device into one die, allowing for a compact, cost-effective design with low power requirements. The SmartDAA feature simplifies product implementation by eliminating the need for country-specific modem solutions.

### Typical SocketModem Applications

The SmartSCM SocketModem is ideal for any application that requires data exchange over standard telephone lines, including vending/gaming machines, point-of-sale terminals, ATMs, remote diagnostic equipment, security systems, set-top boxes, metering equipment and medical equipment. Evaluation kits are available.



## Distinguishing Features

- Supports additional profiles
- Pre-tested to ensure regulatory compliance in major markets
- Fits into small form-factor designs
- Offers pin-to-pin data/fax compatibility with previous-generation U.S. and world-class SocketModems
- Cost effective—proven global time-to-market solution
- Reduces development time

## Product Features

### Data Modem

#### General Features

- Available speeds: 56 Kbps, 33.6 Kbps and 14.4 Kbps
- ITU-T V.90/K56flex, V.34, V.32 bis, V.32, V.22 bis, V.22, V.23 and V.21; Bell 212A and Bell 103
- V.42 LAPM and MNP 2-4 error correction
- V.42 bis and MNP 5 data compression

#### Host Interface

- Serial TTL or Parallel

#### Certification and Compliance

- FCC Part 15B- and 68-compliant
- CE Mark/CTR21-compliant
- UL/CUL-recognized component
- 35 pre-tested country profiles

#### Dimensions

- 64.54 (L) x 26.54 (W) x 8.0\* (H) mm
- 2.54 (L) x 1.045 (W) x 0.31\* (H) inches
- \* Installed height as low as 8.0 mm (0.31 inches)

#### Advanced Features Include

- Concurrent DTMF, ring, and Caller ID detection
- Blacklisting and call progress tone detection
- Digital PBX detection and protection
- Extension pickup detection
- Remote hang-up detection
- Line-in-use detection
- Pulse dialing support
- Sleep mode
- Ships with 35 country profiles
- Simplifies product configurations
- Opens new markets for your product
- Evaluation kits available

### Fax Modem

#### General Features

- Send and receive rates up to 14.4 Kbps
- V.17, V.29, V.27 ter and V.21 channel 2
- EIA/TIA 578 Class 1 and T.31 Class 1.0, and EIA/TIA 578 Class 2 commands
- Full HDLC formatting

#### Software Interface

- SmartSCM AT command set

#### Input Voltage

- 5V

#### Power Usage, Typical

- Serial TTL version – 64 mA sleep and 165 mA maximum; Parallel version – 42 mA sleep and 142 mA maximum

#### Operating Temperature

- 0°C to +70°C

### Worldwide Operation

- Standard product ships with 35 country profiles
- Additional country profiles can be supported

### Standard Country Support

The SmartSCM ships with the following country profiles:

*Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, France, Germany, Greece, Hong Kong, Hungary, India, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, The Netherlands, New Zealand, Philippines, Poland, Portugal, Singapore, South Africa, Spain, Switzerland, Taiwan, Thailand, Turkey, United Kingdom and United States*

## Ordering Information

### SmartSCM SocketModems

Model Number	Description
SC56H1	56 Kbps/V.90 Data/Fax TTL Serial Interface
SC56H0	56 Kbps/V.90 Data/Fax Parallel Interface
SC336H1	33.6 Kbps/V.34 Data/Fax TTL Serial Interface
SC336H0	33.6 Kbps/V.34 Data/Fax Parallel Interface
SC144H1	14.4 Kbps/V.32 Data/Fax TTL Serial Interface
SC144H0	14.4 Kbps/V.32 Data/Fax Parallel Interface

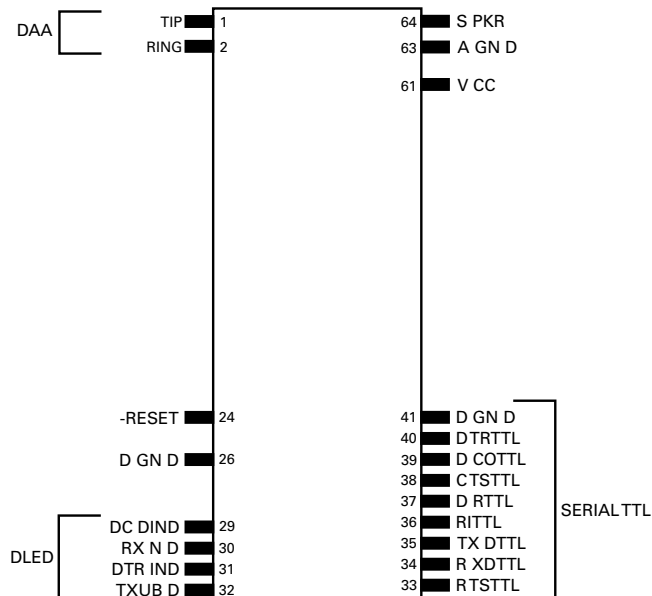
### Evaluation Kits

Model Number	Description
EVAL-SC56H1	56 Kbps/V.90 TTL Serial Interface Evaluation Kit*
EVAL-SC56H0	56 Kbps/V.90 Parallel Interface Evaluation Kit*
EVAL-SC336H1	33.6 Kbps/V.34 TTL Serial Interface Evaluation Kit*
EVAL-SC336H0	33.6 Kbps/V.34 Parallel Interface Evaluation Kit*
EVAL-SC144H1	14.4 Kbps/V.32 TTL Serial Interface Evaluation Kit*
EVAL-SC144H0	14.4 Kbps/V.32 Parallel Interface Evaluation Kit*

\* Evaluation kits include one SocketModem, Evaluation Board, Quick Start Guide, Data Sheet, Designer Guide and Country Compliance and Certification documentation. Serial kits include RS-232 cable and power supply. Parallel kits require the use of one ISA slot. Product evaluation kits are designed to be used with a Windows® OS-based computer.

Specifications are subject to change without notice. SmartDAA and SmartSCM are trademarks of Conexant Systems, Inc. Windows is a registered trademark of Microsoft Corporation.

For more information on this or other TTM System Solutions products, please contact us at:  
Toll Free phone: (877) 387-7304  
Email: [systemsolutions@conexant.com](mailto:systemsolutions@conexant.com)



**SocketModem Pinout**  
Serial TTL Pinout  
(parallel version not shown)

[www.conexant.com](http://www.conexant.com)

General Information:

U.S. and Canada: (800) 854-8099

International: (949) 483-6996

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Order# 101484A

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