SocketModem Selector Guide

The SocketModem family is a full line of complete ready-to-integrate connectivity modules that allow you to enhance your product while you focus on developing its core features. They seamlessly integrate into your device no matter how tight the space. In fact, the flexible comm-port architecture allows a single socket to support a dial-up modem, dial-up Internet modem, wireless GSM/GPRS/CDMA modem, ISDN modem or Ethernet connection. Now you can provide your customers with a full-line of communication options by simply dropping in their communication module of choice.

Universal Socket Connectivity Provides Flexibility

The SocketModem's flexible comm-port architecture provides dial-up, ISDN, wireless, or Ethernet socket connectivity with interchangeable modules. This means you can utilize one system design and populate it with the appropriate connectivity option.

```
  Tip   1  o                      o  64  SPKR
  Ring  2  o                      o  63  GND
 Safely Void 3 ×                  o  62  MICV
  TX+   4  o                      o  61  VCC
  TX-   5  o                      o  60  LED SPD
  RX+   6  o                      o  59  LED COL
  RX-   7  o                      o  58  LED LINK
Safety Void 8 ×                   o  57  LED ACT
        9                         o  56  LED FDX
       10                            55
 TXCLK 11  o                         54
 RXCLK 12  o     Universal Socket    53
       13                            52
       14                            51
       15      SocketModem           50
       16      SocketModem IP        49
       17      SocketEthernet IP     48
       18   SocketModem GSM/GPRS     47
       19      SocketModem ISDN      46
       20      SocketModem CDMA      45
       21                            44
 Mic+  22  o                      o  43  SPK+
 Mic-  23  o                      o  42  SPK-
-Reset 24  o                      o  41  GND
       25                         o  40  -DTR
  GND  26  o                      o  39  -DCD
       27                         o  38  -CTS
       28                         o  37  -DSR
LED DCD 29 o                      o  36  -RI / 3.3V
LED RX 30  o                      o  35  -TXD
LED DTR 31 o                      o  34  -RXD
LED TX 32  o                      o  33  -RTS
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Developer's kits allow you to plug in the SocketModem and use it for testing, programming and evaluation. To obtain a kit, contact Multi-Tech directly or visit our website at www.multitech.com/products/families/socketmodem

SOCKETMODEM™

The SocketModem creates communication-ready devices by integrating voice/data/fax functionality into a single product design. The SocketModem provides the controller, data pump and data access arrangement (DAA) in one module. It is a complete, ready-to-integrate, space efficient (1" x 2.5") embedded modem that provides 56K/V.92 (or below) communication.

SOCKETMODEM™ IP

SocketModem IP embeds Internet protocols inside any device allowing it to send and receive data over the Internet without connecting to a PC or gateway server. The space efficient (1" x 2.5") embedded modem integrates V.92/56K modem functionality and a complete TCP/IP protocol stack into a single product design. It sends and receives data, voice and images via e-mail, HTTP or socket interfaces.

SOCKETMODEM™ GSM/GPRS AND CDMA

The Multi-Tech SocketModem GSM/GPRS and SocketModem CDMA are complete, ready-to-integrate, embedded wireless modems. They provide the controller, RF transceiver, and antenna interface in one module. Designed for global use, they offer standards-based multi-band GSM/GPRS Class 10 and CDMA2000 1xRTT performance.

SOCKETMODEM™ ISDN

The Multi-Tech SocketModem ISDN creates communication-ready devices by integrating BRI ISDN functionality and an S/T interface into a single, universal socket design. The space-efficient (1" x 2.5") embedded modem provides bi-directional communication bandwidth of up to 128K bps. This complete, ready-to-integrate modem dramatically reduces development time and costs for system designers.

SOCKETETHERNET™ IP

SocketEthernet IP is a complete, ready-to-integrate serial-to-Ethernet module for connecting legacy devices to an IP network for remote monitoring, control and configuration. The space efficient module (1" x 2.5") provides a high performance Ethernet bridge as well as a complete TCP/IP protocol stack.

MultiTech® Systems

SocketModem
Complete, ready-to-integrate voice/data/fax modems.

SocketModem Models	MT2456SMI-xx	MT5600SMI-xx	MT5634SMI-xx	MT5656SMI-xx
Telecom Approvals				
Global	X	X	X	
Interface				
Serial	X	X	X	X
Parallel		X	X	X
Power				
3.3 Volt	X	X	X	
5 Volt	X	X	X	X
Maximum Data Rate				
V.92/56K		X	X	X
V.34/33.6K		X	X	X
V.32bis/14.4K			X	X
V.22bis/2400 baud	X			
Fax Capability				
V.34 Fax			X	
V.17 Fax		X	X	X
V.29/V.27/V.21 Fax		X	X	X
Fax Class 1		X	X	X
Fax Class 1.0		X	X	
Fax Class 2			X	X
Fax Class 2.0/2.1			X	
Memory Type				
Flash + RAM			X	
Masked ROM	X	X		X
Features				
11-bit Mode		X	X	X
Caller ID	X	X		X
Leased Line			X	
V.22bis Fast Connect	X	X	X	X
FastPOS (V.29)		X		X
Voice Record and Playback		X	X	X
Industrial Temp Range			X	
Medical Isolation			X	
LED Pin Outputs	X	X	X	X
Extension Pickup Detection	X	X		X
Remote Hang-up Detection	X	X		X
Line-in-use Detection	X	X		X
Digital PBX Detection & Protection	X	X		X
Speakerphone I/O				X

See datasheets for ordering part numbers.

Wireless Modems
Complete, ready-to-integrate GSM/GPRS and CDMA wireless modems.

Features	SocketModem	
Models	MTSMC-C	MTSMC-G
Network Type	CDMA2000 1xRTT	GPRS Class 10
Dual Band CDMA	X	
Dual Band GSM/GPRS		X
Short Message Service	X	X
14.4K Circuit Switched Data	X	X
Maximum Packet Data Rate	153.6K	85.6K
Maximum DTE Speed	230K	115.2K
Class 2.0 Group 3 Fax	X	
GSM Class 1 and 2 Group 3 Fax		X
AT Command Compatible	X	X
MMCX Antenna Connector	X	X
5 VDC Operation	X	X

SocketModem IP and SocketEthernet IP
Connects any device to a TCP/IP network for remote monitoring, control and configuration.

Features	SocketModem IP	SocketEthernet IP
Models	MT2456SMI-IP-XX	MTXCSEM
Network Protocol Support		
ARP		X
DHCP Client		X
DNS Resolve	X	X
FTP Client	X	X
HTTP Server	X	X
HTTP Configuration	X	X
ICMP (Ping)	X	X
IP	X	X
IPCP	X	
LCP	X	
POP3 (Receive mail)	X	X
PPP Bridging		X
PPP (Dial-in)	X	
SMTP (Send mail)	X	X
SNMP	X	X
SNTP Client	X	X
TCP Socket	X	X
Telnet Client	X	X
Telnet Server	X	X
TFTP Client	X	X
UDP Socket	X	X
Authentication Protocols		
CHAP	X	
Dial-up Script	X	
PAP	X	
Interfaces		
Analog Modem (2.4K - 56K)	X	
10/100BaseT Ethernet		X
Asynchronous Serial	X	X
Power	3.3V	3.3V or 5V

MultiTech®
Systems