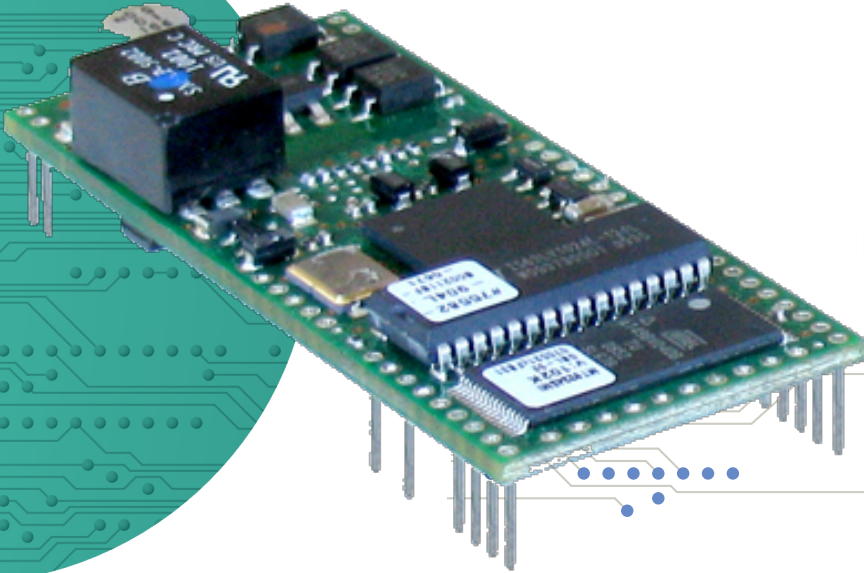


# SocketModem<sup>®</sup>

## Embedded Analog Modems



**MultiTech SocketModem<sup>®</sup>** embedded modem creates communication-ready devices by integrating data/fax modem functionality into a single, universal socket design. It utilizes a space-efficient (1" x 2.5"), design that allows OEMs to integrate a wide range of modem functions and speeds into any product platform. The SocketModem embedded modem complies with telecom requirements globally and can be shipped worldwide.

### Applications

With connect rates from 300 to 56,000 bits per second (bps), the SocketModem embedded modem is targeted at applications that periodically need to send or receive data over a standard telephone line. It is ideal for:

- Appliances
- ATM terminals
- Credit card and check verification systems
- Data collection
- Gas pumps
- Industrial and medical remote monitoring systems
- Point-of-sale terminals
- Remote diagnostics
- Remote metering
- Security systems
- Ticketing machines
- Vending machines

### SocketModem Cell Pin-Out

The SocketModem embedded modem interfaces easily with existing products through a standard serial or parallel communication channel. The complete on-board DAA interfaces with an RJ-11 jack for direct connection to the public switched telephone network. The SocketModem embedded modem provides audio circuit outputs for audio call-progress monitoring, and LED driver outputs for visual monitoring of Carrier Detect, Transmit Data, Receive Data and DTR signals. The SocketModem embedded modem is a Data Terminal Equipment (DTE) device with a serial or parallel interface. The serial DTE channel is capable of transfer speeds to 230.4K bps and can be interfaced directly to a UART or microcontroller.

#### BENEFITS

- Interchangeable communications devices
- Quick-to-market
- Easy migration to future networks

#### FEATURES

- Complete data/fax modem solution including the controller, data pump, and DAA
- V.92/56K and V.34/33.6K
- High speed models backward compatible with lower speeds
- V.17/14.4K fax
- V.44 and V.42bis data compression
- V.42 error correction
- Intelligent DAA technology detects line status
- U.S. Caller ID reporting
- Low power/sleep mode
- FastPOS (V.29) and V.22bis Fast Connect
- 3.3V or 5V power input options
- Serial or parallel interfaces
- Two-year warranty

(I/O) Tip	1	o	64	SPKR (O)
(I/O) Ring	2	o	63	GND (O)
Safety Void	3	x	62	MICV (I)
(O) TX+	4	o	61	VCC (I)
(O) TX-	5	o	60	-LED SPD (O)
(I) RX+	6	o	59	-LED COL (O)
(I) RX-	7	o	58	-LED LINK (O)
Safety Void	8	x	57	-LED ACT (O)
	9	o	56	-LED FDX (O)
	10	o	55	
(O) TXCLK	11	o	54	
(O) RXCLK	12	o	53	
	13	o	52	
	14	o	51	GPIO (I/O)
	15	o	50	GPIO (I/O)
	16	o	49	GPIO (I/O)
	17	o	48	GPIO (I/O)
	18	o	47	
	19	o	46	
	20	o	45	
(I) 21		o	44	
(I) Mic+	22	o	43	SPK+ (O)
(I) Mic-	23	o	42	SPK- (O)
(I) -Reset	24	o	41	GND (I)
(I) USB_VBUS	25	o	40	-DTR (I)
(I) GND	26	o	39	-DCD (O)
(I/O) USB_DP	27	o	38	-CTS (O)
(I/O) USB_DN	28	o	37	-DSR (O)
(O) LED DCD	29	o	36	-RI (O)
(O) LED RX	30	o	35	-TXD (I)
(O) LED DTR	31	o	34	-RXD (O)
(O) LED TX	32	o	33	-RTS (I)

## SPECIFICATIONS

Model	MT5692SMI
Data Modem Performance	V.92, V.34, V.32bis, V.32, V.23, V.23 half-duplex, V.23 reverse, V.22bis, V.22bis Fast Connect, V.22, V.21, Bell 212A/Bell 103, V.29 FastPOS, V.80 Synchronous Access Mode (V.80 not for IP build) V.44 Error Correction V.42 LAPM, MNP 2-4 Error Correction V.42bis & MNP Class 5 data compression
Fax Modem Performance	ITU-T V.17, V.29, V.27 Telephony/TAM V.253 commands 2-bit & 4-bit ADPCM, 8-bit linear PCM & 4-bit IMA coding 8kHz sample rate Concurrent DTMF, ring & U.S. Caller ID detection
Dimensions	2.541" L x 1.045" W x 0.44" H (6.45cm x 2.65cm x 1.1 cm)
Power Requirements	Typical: 72mA (.24W @ 3.3VDC) Maximum: 81mA (.27W @ 3.3VDC) Typical: 76mA (.38W @ 5VDC) Maximum: 89mA (.45W @ 5VDC)
Input Power	3.3V or 5V depending on build
<b>Environmental</b>	
Operating Temperature	-40° C to +85° C
Storage Temperature	-40° C to +85° C
Relative Humidity	20% to 90% non-condensing
<b>Certifications &amp; Approvals</b>	
EMC Compliance	FCC Part 15 (Class B), ICES-003 (Class B), EN 55022 (Class B), EN 55024
Safety Compliance	UL/CSA 60950-1 2nd Ed, UL / CSA 62368-1 2nd Ed, IEC 60950-1 2nd Ed Am1, IEC 62368-1:2014 / A11:2017 includes requirements for AS/NZS 62368.1:2018
Telecom Compliance	47 CFR Part 68, IC CS-03, TIA 968A, TBS 31, TRB21, CE, RCM, JATE
Warranty	2-Years / <a href="http://www.multitech.com/legal/warranty">www.multitech.com/legal/warranty</a>

## ORDERING INFORMATION

### SocketModem®

Model	Description	Region
MT5692SMI-92	V.92 Serial Data/Fax	Global
MT5692SMI-L-92	V.92 Serial Data/Fax	Global
MT5692SMI-X-L-92	V.92 Serial Data/Fax (no LED pins)	Global
MT5692SMI-P-92	V.92 Parallel Data/Fax	Global
MT5692SMI-P-L-92	V.92 Parallel Data/Fax	Global
MT5692SMI-34	V.34 Serial Data/Fax	Global
MT5692SMI-L-34	V.34 Serial Data/Fax	Global
MT5692SMI-P-34	V.34 Parallel Data/Fax	Global
MT5692SMI-P-L-34	V.34 Parallel Data/Fax	Global
MTSMI-UDK	SocketModem Serial Developer Kit	Global

### Ordering Codes

Model	Description
-92	V.92/56K data rate
-34	V.34/33.6K data rate
-P	Parallel interface (default is serial)
-X	Exclude LED pin outputs (Legacy MT5600SMI and MT3400SMI support)
-L	3.3 Volt power input (default is 5V)
-UDK	Universal Developer kit

Go to [www.multitech.com](http://www.multitech.com) for detailed product model numbers.

## Services & Warranty

MultiTech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations.

## Technical Support Services

At MultiTech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit [www.multitech.com/support.go](http://www.multitech.com/support.go)

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Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

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