

Universal Socket Connectivity Selector Guide

Multi-Tech's **Universal Socket** flexible comm-port architecture provides cellular, Ethernet, PSTN or Wi-Fi® socket connectivity with interchangeable communications devices. This means you can utilize one system design and populate it with the appropriate connectivity option. Now you can provide a full-line of connectivity by simply dropping in the communications device of choice. In addition, you are assured a seamless migration to future technologies.

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

Multi-Tech's intelligent **Universal IP™** consists of a common set of TCP/IP networking protocols and machine-to-machine (M2M) applications implemented using a standard AT command interface. Universal IP allows developers to write their host application one time while having the freedom to select from a growing number of Universal Socket communication devices and use the latest 2G and 3G technologies.

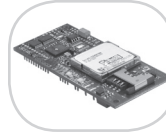
Our **Universal Socket Developer's Guide** assists you in evaluating the embedded family of connectivity solutions as you consider the different options for current, as well as, future requirements of your product strategy. To obtain a guide, contact Multi-Tech directly or visit our website at www.multitech.com/primers/universal_socket.go

SocketModem® iCell



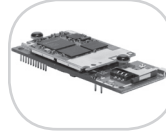
The SocketModem iCell intelligent cellular modem offers standards-based quad-band GSM/GPRS Class 10 performance and a dedicated GPS receiver in certain models. The intelligence of the embedded Universal IP stack allows for automatic/persistent connectivity and enhanced M2M functionality.

SocketModem® Cell



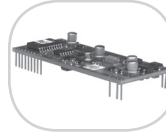
The SocketModem Cell cellular modem offers standards-based quad-band GSM/GPRS Class 10 performance and includes an embedded TCP/IP protocol stack. This quick-to-market cellular modem is based on industry-standard open interfaces allowing developers to add cellular communications cost-effectively.

SocketModem® HSDPA, SocketModem® EDGE & SocketModem® CDMA



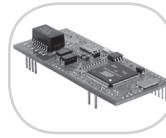
These cellular modems offer standards-based UMTS/HSDPA, EDGE (E-GPRS) Class 12 and CDMA2000 1xRTT performance respectively. These quick-to-market communications devices allow developers to add cellular communication to products with a minimum of development time and expense.

SocketModem® & SocketModem® IP



The SocketModem embedded modem includes the controller, data pump and data access arrangement (DAA) in one communications device. With connect rates from 300 bps to V.92/56K, it is ideal for applications that periodically need to send or receive data over a standard telephone line. The SocketModem IP embedded modem integrates a complete data/fax modem solution and Universal IP stack into one communications device.

SocketEthernet IP®



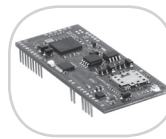
The SocketEthernet IP device server connects serial devices to an IP network. It is ideal for remote monitoring, control, maintenance and configuration of any system.

SocketWireless® Bluetooth®



The SocketWireless Bluetooth device server utilizes Bluetooth technology to provide a secure, standards-based wireless connection between a host and a peripheral device, providing wireless data transfer up to 100 meters.

SocketWireless® Wi-Fi®



The SocketWireless Wi-Fi device server connects serial devices to an IP network via 802.11b/g wireless networking. It is ideal for remote monitoring, control and configuration of any system.

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MultiTech®
 Systems

Embedded Analog Modems

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

Models	MT2492SMI-xx	MT9234SMI-xx	MT5692SMI-xx
Telecom Approvals			
Global		X	X
Interface			
Serial	X	X	X
Parallel		X	X
Power			
3.3 Volt	X	X	X
5 Volt	X	X	X
Maximum Data Rate			
V.92/56K	X	X	X
V.34/33.6K	X	X	X
V.22bis/2400 baud	X		
Fax Capability			
V.34 Fax		X	
V.17 Fax		X	X
V.29/V.27/V.21 Fax		X	X
Fax Class 1		X	X
Fax Class 1.0		X	X
Fax Class 2		X	X
Fax Class 2.0/2.1		X	
Fax Compression (MH, MR, MMR)		X	
Error Correction Mode (ECM)		X	
Memory Type			
Flash + RAM		X	
Masked ROM	X		X
Features			
11-bit Mode		X	
U.S. Caller ID	X	X	X
Leased Line		X	
V.22bis Fast Connect	X	X	X
FastPOS (V.29)			X
Callback Security		X	
Industrial Temp Range		X	X
Medical Isolation		X	
LED Pin Outputs		X	X
Extension Pickup Detection	X		X
Remote Hang-up Detection	X		X
Line-in-use Detection	X		X
Digital PBX Detection & Protection	X		X
Voice Record & Playback (TAM)		X	X
Speakerphone I/O			X

See datasheets for more specifications and ordering part numbers.

Developer's guides are available upon request.

Features and specifications are subject to change without notice.

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Embedded Cellular Modems

Complete, ready-to-integrate HSDPA, EDGE, GPRS and CDMA cellular modems.

Models	MTSMC-G2	MTSMC-H	MTSMC-E1	MTSMC-C
Network Type	GPRS Class 10	HSDPA 3.6	EDGE Class 12	CDMA2000 1xRTT
Dual-band CDMA				X
Quad-band GSM	X	X	X	
Tri-band HSDPA		X		
Short Message Service	X	X	X	X
14.4K Circuit Switched Data	X	9.6K/64K	X	X
Maximum Packet Data Rate	85.6K	3.6M	240K	153.6K
Maximum DTE Speed	115.2K	921.6K	460K	230K
USB 2.0 Full Speed		X		
AT Command Compatible	X	X	X	X
MMCX Antenna Connector		X	X	X
UFL Antenna Connector	X			
5 VDC Operation	X	X	X	X
GPS Tracking	X			

Embedded TCP/IP Networking

Models	MT5692SMI-IP-xx	MT100SEM-IP	MT810SWM-IP	MTSMC-C	MTSMC-G2	MTSMC-G2-IP/GP	MTSMC-E1
Universal IP Support	X	X	X			X	
Network Protocol Support							
ARP		X	X				
DHCP Client		X	X				
DNS	X	X	X	X	X	X	X
FTP Client	X	X	X		X	X	X
ICMP (Ping)	X	X	X		X	X	X
POP 3 (Receive mail)	X	X	X		X	X	X
PPP (Dial-out)	X			X	X	X	X
SMTP (Send mail)	X	X	X		X	X	X
SNTP Client			X				
TCP Socket	X	X	X	X	X	X	X
UDP Socket	X	X	X	X	X	X	X
M2M Features							
Automatic/Persistent Connect	X	X	X			X	
Device Monitor	X	X	X			X	
Modem Emulation	X	X	X			X	
Ping/TCP Keep Alive	X	X	X			X	
Wake-up on Ring	X					X	
Wake-up on Caller ID						X	
Authentication Protocols							
CHAP	X			X	X	X	X
PAP	X			X	X	X	X

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