

## XM7200S

This is the next generation 3.5G wireless module designed to bring your M2M application to the next level.

This module features fast HSUPA and HSDPA connectivity while still leveraging backwards compatibility with GSM/GPRS and EDGE.

### Benefits:

- Enables any device to send and receive data via Tri-band UMTS/HSPA (850/1900/2100MHz) and quad-band 850,900,1800,1900 MHz GSM network.
- Based on Motorola H24, one of the most compact modules available and ideally suited for a wide range of M2M applications.
- Pin compatible and exchangeable with Analog, ISDN and LAN socket modems from xmodus.
- FTA, FCC, IC, PTCRB, GCF and EMC regulatory approvals. Full approved in Europe, US and other countries.

### Features:

- AT-Command Set Interface Protocol ETSI GSM 07.05, 07.07 and 07.10.
- HSPA: max uplink 2.0Mbps, downlink 7.2Mbps.
- EDGE: Multislot class 12.
- GPRS: Multislot class 12.
- CSD: UMTS max. 64Kbps, GSM 14.4Kbps.
- SMS: MO/PDU modes, FAX: Group 3, class 1
- Embedded TCP/IP and UDP/IP protocol stack.
- USB 2.0 high speed interface (480Mbps).
- Multi channels over USB
- UART: Fast BR from 300 bps to 4 Mbps.
- UMTS/HSDPA/HSUPA 3GPP release 6

### Features:

- Sleep mode < 2.5mA @ DRX9
- Transparent, V.32bis and V.110 transmission protocols.
- Firmware update over the air (FOTA).
- Fax (Group 3, Class 1).
- Embedded GPS receiver (optional).
- SSL: Secure connection.

### Specifications:

- Compact Size: 64.5 X 26.5 X 10 mm.
- 3.3V or 5VDC Supply (2 versions).
- Typical Power use average: 700mA RMS
- Max. Power use @ PCL5, WCDMA: 1.8A peak.
- UART interface with TTL levels
- Weight: 22 gram.
- Internal SIM card reader.
- External SIM card reader interface.
- Integrated MMCX Antenna Interface.
- Operating temperature: -30° to +85°.
- 2 Year warranty.

Ordering Nr.:



**XM7200S-5V**  
**XM7200S-3V**

Pin Diagram				Pin No	Name	Pin No	Name
1	NC	SPKR	64	1	NC	64	SPKR
2	NC	GND	63	2	NC	63	GND Analog
		MIC	62	3..23	NO PIN	62	MICRO IN
		VCC	61	24	ON / OFF	61	VCC
				25	NC	60	NO PIN
				26	GND Digital	59	NO PIN
				27	LED GPRS	58	NO PIN
				28	SIMVCC	57	NO PIN
				29	GSM LED	56	NO PIN
				30	SIMDATA	55	NO PIN
				31	SIMRST	54	NO PIN
		USB-VCC	44	32	SIMCLK	45...53	NO PIN
		USB Data (+)	43	33	RTS#	44	USB VCC
		USB Data (-)	42	34	RXD#	43	USB data (+)
24	ON / OFF	GND	41	35	TXD#	42	USB data (-)
	NC	DTR	40	36	RI#	41	GND Digital
26	GND	DCD	39	37	DSR#	40	DTR#
27	GPRS-LED	CTS	38	38	CTS#	39	DCD#
28	SIMVCC	DSR	37				
29	TX-LED	RI	36				
30	SIMDATA	TXD	35				
31	SIMRST	RXD	34				
32	SIMCLK	RTS	33				

Operating Conditions	Symbol	Limits	Units
Supply Voltage (-5V Version)	VDD	+ 4.75 to + 5.25	VDC
Supply Voltage (-3V Version)	VDD	+ 3.20 to + 3.60	VDC
Operating temperature	TA	-20° to + 70°	°C
Extended temperature	TA	-30° to + 85°	°C

Power Requirements	Typical Current (mA)	Max. Current (mA)
XM7200S in a call @PCL5	620	1700 (peak)
Average Idle	22,0	22,0
Sleep mode @DRX9	1,5	1,5

Product Documentation	Doc Nr.
Designers Guide	XM7200S-E00-100
AT Command Manual	XM7200S-A00-102
Additional Information	<a href="http://www.xmodus.ch">www.xmodus.ch</a>

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