

XM7000S

Embedded GSM Socket Modem. This is the light version of the AL7024S for large-scale M2M systems with simple functional needs. This module provides a quadband and GPRS class 10 engine.

Benefits:

- Enables any device to send and receive data via quad-band 850,900,1800,1900 MHz GSM network.
- Based on Motorola G.Lite, 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.

Functions:

- AT-Command Set Interface Protocol ETSI GSM 07.05, 07.07 and 07.10.
- Quad band 850/900/1800/1900Mhz GSM Engine.
- Class 4 (2W @ 900 MHz)
- Class 1 (1W @ 1800MHz)
- RX sensitivity -106dBm
- GPRS multi slot classes up to Class 10
- GPRS Class B multiplexing.
- GPRS max. BR 85.6 Kbps (CS4)

Connectivity:

- CSD max. BR 14.4 Kbps
- Sleep mode < 2.5mA @ DRX9
- Transparent, V.32bis and V.110 transmission protocols.
- SMS services features MO/MT text and PDU modes

Specifications:

- Compact Size: 64.5 X 26.5 X 10 mm.
- 3.3V or 5VDC Supply.
- Typical Power use average: 270mA
- Typical Power use @ PCL 8: 1.5A peak.
- Serial RS-232 interface with TTL levels
- Weight: 22 gram.
- Internal SIM card reader.
- External SIM card reader interface.
- Integrated MMCX Antenna Interface.
- Operating temp.: -20° to +60°, extended temperature range demand.
- 2 Year warranty.

Ordering:



XM7000S
XM7000S-3V

Pin Diagram				Pin No	Name	Pin No	Name
1	NC	SPKR	64	1	NC	64	SPEAKER
2	NC	AGND	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
				32	SIMCLK	45...53	NO PIN
				33	RTS#	44	NO PIN
				34	RXD#	43	NO PIN
				35	TXD#	42	NO PIN
				36	RI#	41	GND Digital
				37	DSR#	40	DTR#
				38	CTS#	39	DCD#
24	ON / OFF	DGND	41				
25	NC	DTR	40				
26	DGND	DCD	39				
27	GPRS-LED	CTS	38				
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	VDD	+ 4.75 to + 5.25	VDC
Supply Voltage (-3V Version)	VDD	+ 3.20 to + 3.40	VDC
Operating temperature	TA	-20° to + 60°	°C
Extended temperature (ET Version)	TA	-30° to + 85°	°C

Power Requirements	Typical Current (mA)	Max. Current (mA)
XM7000S in a call @PCL5	270	305
Average Idle	18,0	20,0
Sleep mode @DRX9	2,0	2,5

Product Documentation	Doc Nr.
Designers Guide	XM7000S-E00-100
AT Command Manual	XM7000S-A00-100
Additional Information	www.xmodus.ch

Contact Information	
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