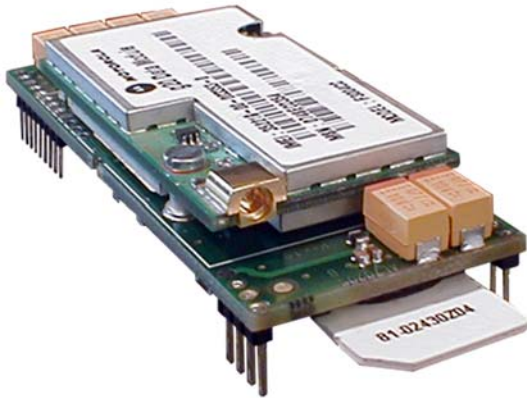


# XM7024L

Embedded GSM Socket Modem



This is the light version of the AL7024S for large-scale M2M systems with simple functional needs. Quadband and GPRS class 10 engine. With a price tag that matches its name.

## 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 temp. on demand.
- 2 Year warranty.



**Ordering:** XM7024L  
XM7024L-3V

Pin Diagram		Pin No	Name	Pin No	Name
1	NC	64	SPEAKER		
2	NC	63	GND Analog		
		62			
		61			
		60			
		59			
		58			
		57			
		56			
		55			
		54			
		45...53			
		44			
		43			
		42			
		41			
		40			
		39			
		38			
		37			
		36			
		35			
		34			
		33			
		32			
		31			
		30			
		29			
		28			
		27			
		26			
		25			
		24			
		23			
		22			
		21			
		20			
		19			
		18			
		17			
		16			
		15			
		14			
		13			
		12			
		11			
		10			
		9			
		8			
		7			
		6			
		5			
		4			
		3			
		2			
		1			

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	T <sub>A</sub>	-20° to + 60°	°C
Extended temperature (ET Version)	T <sub>A</sub>	-30° to + 85°	°C

Power Requirements	Typical Current (mA)	Max. Current (mA)
XM7024L in a call @PCL5	270	305
Average Idle	18,0	20,0
Sleep mode @DRX9	2,0	2,5

Additional Documentation	Doc Nr.
Designers Guide	XM7024L-E00-100
AT Command Manual	XM7024L-A00-100
Quick Start Manual	XM7024L-QSM-102

Contact Information	
 <b>xmodus swiss GmbH</b> Dachlernstrasse 63 CH-8048 Zürich, Switzerland Phone +41 (0) 44 438 88 82 <a href="http://www.xmodus.ch/">http://www.xmodus.ch/</a>	 <b>MRC Components OHG</b> Obere Domberggasse 7 D-85354 Freising COMPONENTS <a href="mailto:info@mrccomponents.de">info@mrccomponents.de</a> <a href="http://www.mrccomponents.de">www.mrccomponents.de</a> Tel. +49-(0)8161-9848-0 Fax +49-(0)8161-9848-20
© 2008 xmodus swiss. The information in this document is believed to be accurate in all respects at the time of publication but is subject to change without notice. Xmodus swiss assumes no responsibility for any errors and omissions.	