

AL7024S

Embedded GSM / GPRS Socket

Modem with dualband 900 / 1800

Mhz, GPRS multi slot class 10 and

Class B multiplexing.

Benefits:

- Enables any device to send and receive data via dual band 900/1800 MHz GSM network.
- Based on Motorola G24, 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.
- Dual band 900/1800Mhz
- 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)
- CSD max. BR 14.4 Kbps
- Sleep mode < 2.5mA @ DRX9
- SSL Secure connection.

Connectivity:

- Transparent, V.32bis and V.110 transmission protocols.
- Automatic fax group 3 (Class 1)
- Multiplexing protocol (ETSI 07.10) enables up to 4 virtual channels.
- Embedded TCP/IP UDP/IP and FTP protocol stack.
- SMS services features MO/MT text and PDU modes
- Embedded SMTP / POP3 - email.

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 UART 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°
- 2 Year warranty.

Ordering:



AL7024S
AL7024S-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	TX LED	56	NO PIN
				30	SIMDATA	55	NO PIN
				31	SIMRST	54	NO PIN
				32	SIMCLK	45...53	NO PIN
24	ON / OFF	DGND	41	33	RTS#	44	NO PIN
25	NC	DTR	40	34	RXD#	43	NO PIN
26	DGND	DCD	39	35	TXD#	42	NO PIN
27	GPRS-LED	CTS	38	36	RI#	41	GND Digital
28	SIMVCC	DSR	37	37	DSR#	40	DTR#
29	TX-LED	RI	36	38	CTS#	39	DCD#
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)
AL7024S 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	AL7024S-E00-106
AT Command Manual	AL7024S-A00-102
Additional Information	www.xmodus.ch

Contact Information	
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