



XM8000S

WLAN socket modem with 802.11b and 802.11g network interface. Simple WLAN to RS232 bridge with embedded web server. Pin compatible with Analog, ISDN and GSM socket modems.

Benefits:

- Enables any device to send and receive data via WLAN 802.11b and 802.11g network.
- Based on Motorola W24, one of the most successful modules available and ideally suited for a wide range of M2M applications.
- FCC, CE and EMC regulatory approvals. Full approved in Europe, and other countries.

Functions:

- AT-Command Set Interface Protocol (AT+I command set for W24) .
- DTE speed from 2400 – 230'400 bps (Auto BR).
- Wi-fi data rates: 1 Mbps – 54 Mbps (auto fallback).
- Modulation Schemes: 802.11b and 802.11g
- TX Power: 802.11b = 17dBm, 802.11g = 15dBm
- RX sensitivity: 11b = -86dBm, 11g = -71dBm
- Embedded protocols: TCP/IP, UDP, FTP, SMTP/POP3, HTTP client, DHCP client + server, PPP, Telnet, DNS.
- Embedded Web Server, Internal Web Site.
- Infrastructure station mode, Ad-hoc Station mode (IBSS).

Security Features:

- WLAN security protocols: WEP, WPA2
- Encryption: SHA, AES, 3DES
- General protocols : SSL3, TLS1
- Authorization: Authorized user only allowed accessing the unit for remote configuration and firmware upgrade.
- Firmware upgrade: Over-the-air (OTA) and serial interface.

Specifications:

- Compact Size: 64.5 X 26.5 X 10 mm.
- Single 3.3V or 5.0V DC power supply.
- Typical Power use average: 300mA @ 5V
- Serial RS-232 interface with TTL levels.
- Integrated MMCX Antenna Interface.
- Operating temp.: -20°C to +60°C
- 2 Year warranty.

Ordering:



XM8000S
XM8000S-3V

Pin Diagram		Pin No	Name	Pin No	Name
1	NC	64	NC	64	NC
2	NC	63	GND	63	GND
		62	NC	62	NC
		61	VCC	61	VCC
		60	NO PIN	60	NO PIN
		59	NO PIN	59	NO PIN
		58	NO PIN	58	NO PIN
		57	NO PIN	57	NO PIN
		56	NO PIN	56	NO PIN
		55	NO PIN	55	NO PIN
		54	NO PIN	54	NO PIN
		45...53	NO PIN	45...53	NO PIN
		44	NO PIN	44	NO PIN
		43	NO PIN	43	NO PIN
		42	NO PIN	42	NO PIN
		41	GND	41	GND
		40	DTR#	40	DTR#
		39	DCD#	39	DCD#
		38	CTS#	38	CTS#
		37	DSR#	37	DSR#
		36	RI#	36	RI#
		35	TXD#	35	TXD#
		34	RXD	34	RXD
		33	RTS#	33	RTS#
		32	NC	32	NC
		31	NC	31	NC
		30	NC	30	NC
		29	WIFI-LED	29	WIFI-LED
		28	NC	28	NC
		27	GPRS-LED	27	GPRS-LED
		26	GND	26	GND
		25	NC	25	NC
		24	ON / OFF	24	ON / OFF
		41	DGND	41	DGND
		40	DTR	40	DTR
		39	DCD	39	DCD
		38	CTS	38	CTS
		37	DSR	37	DSR
		36	RI	36	RI
		35	TXD	35	TXD
		34	RXD	34	RXD
		33	RTS	33	RTS

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)			

Power Requirements	Typical Current (mA)	Max. Current (mA)
XM8000S Wi-Fi active (Tx)	190	250
Average Idle	125	150
Sleep mode	9	12

Product Documentation	Doc Nr.
Designers Guide	XM8000S-E00-100
AT Command Manual	XM8000S-A00-100
Additional Documentation	www.xmodus.ch

Contact Information	
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