

J27H023 WLAN MODULE

USER'S MANUAL



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Introduction

The J27 H023.00 80 2.11b/g module provide s w ireless modem functionality utilizing direct sequence spread spectrum and OFDM/CCK technology.

1.1 WLAN Features

Operating Frequency 2412 ~ 2483.5 MHz ISM band

Modulation Schemes 802.11: DPSK,DBPSK

802.11g: OFDM, DQPSK, DBPSK and CCK

802.11b: DQPSK, DBPSK and CCK

Channel Numbers IEEE 802.11 compliant:

1 ~ 13 channels for 802.11 b1 ~ 11 channels for 802.11 g

WLAN Data Rate 802.11g: Up to 54 Mbps with auto fallback to 48, 36, 24, 18, 12,

9 and 6 Mbps.

802.11b: Up to 11 Mbps with auto fallback to 5.5, 2 and 1Mbps.

802.11: Up to 1Mbps and 2Mbps

Media Access Protocol CSMA/CA with ACK

Transmitter Output Power

Item		Condition		Min	Тур.	Max	Unit
802.11		1Mbps		-2	0	1.5	dBm
		2M	2Mbps		0	1.5	dBm
Transmit power level	802.11g	6Mbps	1-11ch	3	5	6.5	dBm
		9Mbps	1-11ch	3	5	6.5	dBm
		12Mbps	1-11ch	3	5	6.5	dBm
		18Mbps	1-11ch	3	5	6.5	dBm
		24Mbps	1-11ch	3	5	6.5	dBm
		36Mbps	1-11ch	2	4	5.5	dBm
		48Mbps	1-11ch	2	4	5.5	dBm
		54Mbps	1-11ch	1.5	3.5	5	dBm



			1-11ch	3.5	5.5	7	dBm
	802.11b	1Mbps	12-13ch	-2	0	1.5	dBm
			1-11ch	3.5	5.5	7	dBm
		2Mbps	12-13ch	-2	0	1.5	dBm
			1-11ch	3.5	5.5	7	dBm
		5.5Mbps	12-13ch	-2	0	1.5	dBm
			1-11ch	3.5	5.5	7	dBm
		11Mbps	12-13ch	-2	0	1.5	dBm

Antenna Type Single antenna connector for off board antenna

Operating Voltage 1.8 VDC and 3.3 VDC

Operating Systems Windows 98/Me/2000/XP

1.2 FCC Notice

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This denice complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful in terference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. FOXCONN declared that J27H023.01 is limited in CH1~11 from 2412 to 2462 MHz for 802.11g and CH1~13 from 2412 to 2472 MHz for 802.11b by specified firmware controlled in USA.

This device is intended only for OEM integrators under the following conditions:



To comply with FCC RF exposure compliance requirements, this device must not be co-located or operating in conjunction with any other antenna or transmitter.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labelling

The final end product must be labelled in a visible area with the following: "Contains FCC ID: MCLJ27H02301".

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the users manual of the end product which integrate this module.

The users manual for OEM integrators must include the following information in a prominent location "IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, this device must not be co-located or operating in conjunction with any other antenna or transmitter.

1.3 Canada Notice

Industry Canada Statement

This Device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

Labeling

The final end product must be labelled in a visible area with the following: "Contains IC: 2878D-J27H02301".

Installation Manual

