O3 WIFI MODULE
J27H020

USER'S MANUAL

Contents

Introduction

O3 WIFI Module is compliance with IEEE802.11,IEEE 802.11b and IEEE 802.11g Standards.

1.1 WLAN Features

Operating Frequency	2400 ~ 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 United States, Europe and Japan IEEE 802.11b/g compliant: 1 ~ 11 channels for United States 1 ~ 13 channels for Europe, Japan
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 legacy: Up to 1Mbps and 2Mbps
Media Access Protocol	CSMA/CA with ACK

Transmitter Output Power

Item		Condition	Min	Typ.	Max	Unit
Transmit power level	802.11 legacy	1Mbps	-1.5	0	1	dBm
		2Mbps	-1.5	0	1	dBm
	802.11g	6Mbps	3.5	5	6	dBm
		9Mbps	3.5	5	6	dBm
		12Mbps	3.5	5	6	dBm
		18Mbps	3.5	5	6	dBm
		24Mbps	3.5	5	6	dBm
		36Mbps	2.5	4	5	dBm
		48Mbps	2.5	4	5	dBm

		54Mbps	2	3.5	4.5	dBm
	802..11b	1Mbps	4	5.5	6.5	dBm
		2Mbps	4	5.5	6.5	dBm
		5.5Mbps	4	5.5	6.5	dBm
		11Mbps	4	5.5	6.5	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 device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, 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 J27H020 802.11b/g module is limited in CH1~11 from 2412 to 2462 MHz by specified firmware controlled in USA.

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

The antenna must be installed such that 20 cm is maintained between the antenna and users, and

The transmitter module may not be co-located with any other transmitter or antenna.

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

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labelled in a visible area with the following: “Contains FCC ID: MCL J27H020.

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 user’s 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, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

1.3 Canada Notice

Industry Canada Statement:

Operation is subject to the following two conditions:
1) This device may not cause interference.
2) This device must accept any interference, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding.
Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.