

MIC-A2 WIFI Module User Manual Rev. 0.01

Reviewers

Department	Name	Review Dates	
		Plan	Results
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1. Introduction

Project Name: 802.11n WIFI module

This documentation describes the product specification of the 802.11n WIFI module, it is a confidential document of FOXCONN.

1.1 Scope

The MIC-A2 802.11n WIFI module provides wireless modem functionality utilizing OFDM technology. The objective of this use manual is to verify the functionality of the MIC-A2 802.11n WIFI module RF/Digital electronic design against the design specifications.

This revision includes results taken at various temperatures (0°C, 25°C, 65 °C) and VDD voltages (3.1V, 3.3V, 5.25V), VDDIO Voltage (2.7V, 2.8V, 2.9V). Included are statements of test purpose, test methodologies, test modes and parameters, environmental conditions, applicable specifications, and typical reference design performance. The major specifications and documents are listed below and upon to update in the following new revisions.

- 802.11n: IEEE P802.11n/D2.07-Mar 2006 Paragraph 20.3.20.1

This device is operated in 5180~5240MHz (indoor only) and 5745~5825MHz.

1.2 Function

- Support IEEE 802.11n specified functions
- 1x1 single stream with antenna diversity
- SDIO V2.0 interface support

2. Product Specification

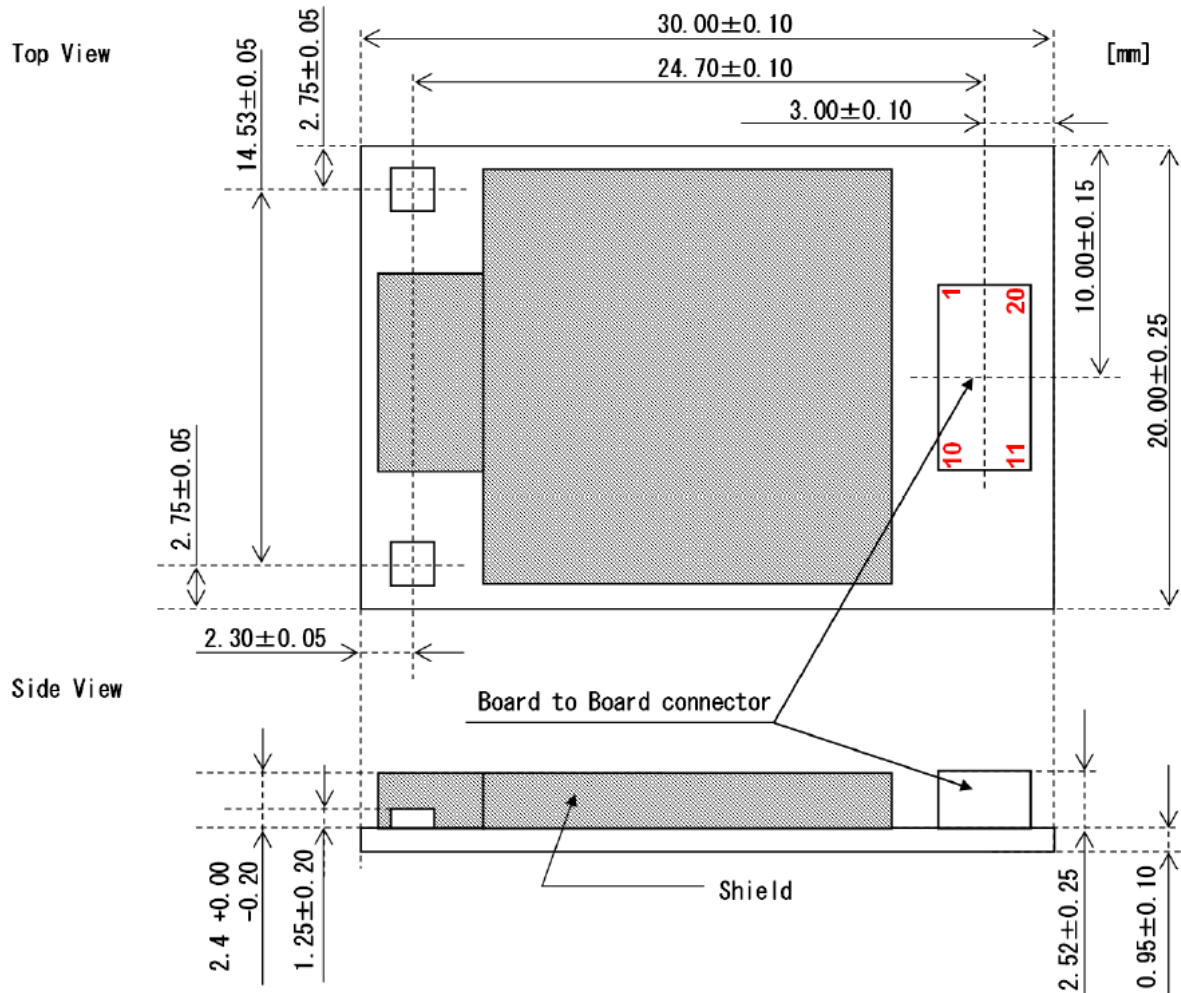
2.1 Electrical Specification

Absolute Maximum Ratings

These specifications indicate levels where permanent damage to the device can occur. Functional operation is not guaranteed under these conditions. Operation at absolute maximum conditions for extended can adversely affect long-term reliability of the device.

Element	Symbol	Min	Typ	Max	Unit
DC Supply Voltage for Core	Vwifi	3.1	3.3	5.25	[V]
DC Supply Voltage for I/O	VDDIO	2.7	2.8	2.9	[V]

3. Mechanical Drawing



4. Regulatory Information

USA-Federal Communications Commission (FCC)

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.

Caution

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

Labeling

Hon Hai Precision 802.11n WIFI module MIC-A2 labeled as below.

FCC ID: MCLMICA2

The proposed with FCC ID label format is to be placed on the module. If FCC ID is not visible when the module is installed into the system, "Contains FCC ID: MCLMICA2" shall be placed on the outside of final host system.

Caution: Exposure to Radio Frequency Radiation.

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada-Industry Canada (IC)

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 this device.

Labeling

Hon Hai Precision 802.11n WIFI module MIC-A2 labeled as below.

IC :2878D-MICA2

The proposed with IC No. label format is to be placed on the module. If IC No. is not visible when the module is installed into the system, "Contains IC :2878D-MICA2" shall be placed on the outside of final host

system.

The term “IC” before the equipment certification number only signifies that the Industry Canada technical specifications were met.

Caution: Exposure to Radio Frequency Radiation.

To comply with IC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.