

DT50RF (5127)

Integration Manual

Company Confidential

Version:	Date:	Status:
1.1	2016-06-07	Approved
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Doc.-No.:	File Name	
5127.30.316	DT50RF_Integrator_Manual.docx	

Version History

Version	Date	Author	Status	Comments
0.1	2015-11-25	Schwand	Draft	Initial document
0.2	2015-11-30	Schwand	Draft	Added FCC ID
1.0	2016-03-24	Aescmic	Approved	
1.1	2016-06-07	Aescmic	Approved	IC ID corrected

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Table of Contents

1 Foreword	4
1.1 Scope.....	4
1.2 References	4
1.3 Abbreviations and Terms.....	4
2 Labeling	5
2.1 The electronic label is accessible	5
3 Module Installation instructions	5
4 Regulatory Compliance	6
4.1 FCC Part 15, Class B	6
4.2 Industry Canada	6
4.3 RF Exposure.....	6
4.4 Professional Installation.....	6
4.5 Antennas	7
4.6 Module Co-location.....	7

1 Foreword

1.1 Scope

1.2 References

No.	Author, "Title", Version, Date, Source/File/Link
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[1]

1.3 Abbreviations and Terms

Abbreviation	Description
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2 Labeling

The end product has an electronic label including the following text:

- FCC ID 2AEJD-103902-DT50RF
- IC 9301A-103902DT50
- Model DT50RF_MK2
- Region Domain Settings
- Grantee information
- Technical Contact

2.1 The electronic label is accessible

Devices based on factory configuration do show the e-label using a state of the art web browser:

- <http://192.168.1.20>
- <https://192.168.1.20>

3 Module Installation instructions

DT50RF_MK2 module has the dimensions according to Figure 1. Module thickness is 5 mm and with RF connectors 7 mm. The DT50RF_MK2 need to be fixed to the end product with four M2.5 screws.

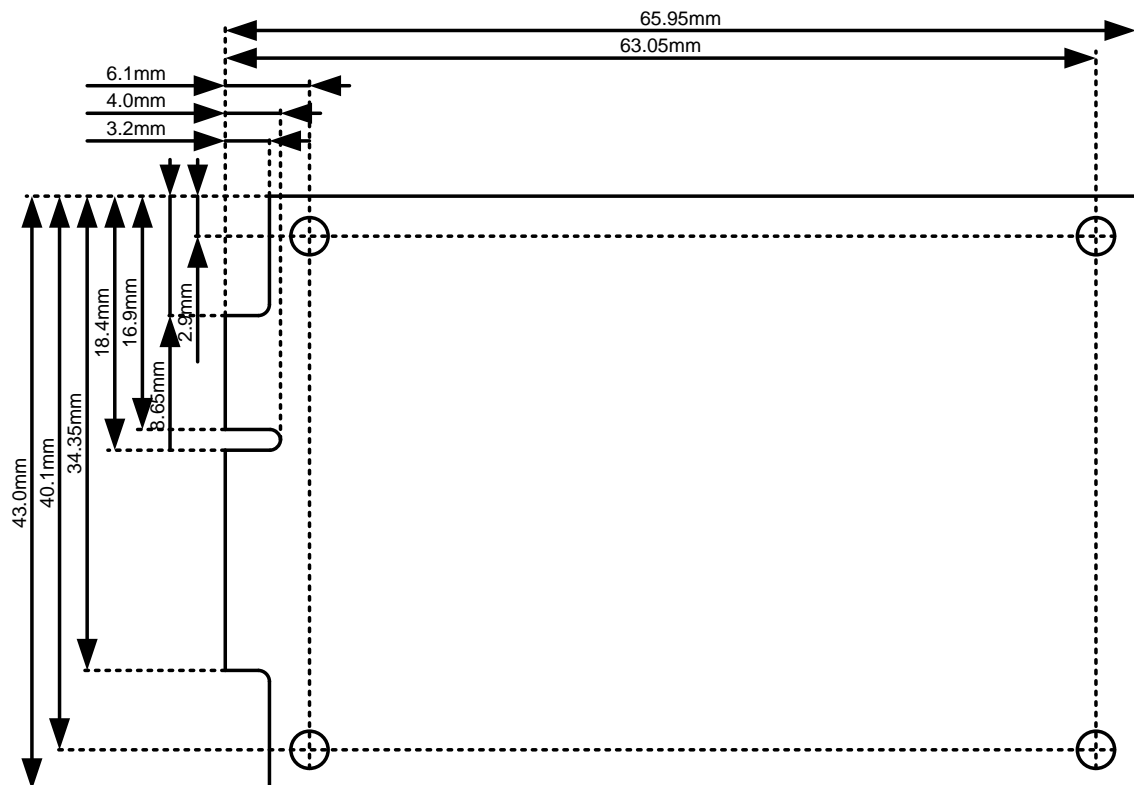


Figure 1 Dimensions of DT50RF_MK2 module

The module is connected by a PCIe interface and three MMCX antenna connectors. Following operation conditions need to be complied when the module is implemented into an end product.

Parameter	Value
Operation temperature	-40 ... +85°C
3.3V supply voltage	2.97 ... 3.63V
Current consumption	2500mA peak; 2000mA average

4 Regulatory Compliance

4.1 FCC Part 15, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions:

- This device may not cause harmful interference and
- This device must accept any interference received, including interference that may cause undesired operation.

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

4.2 Industry Canada

This device complies with Industry Canada license exempt RSS standard(s). 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."

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

4.3 RF Exposure

Antennas must have a greater distance than 20cm separation from transmitting antenna to the user body during normal operation conditions.

4.4 Professional Installation

This module is intended for professional installation.

4.5 Antennas

Regulatory Approval Conditions for using the module:

This device can be used with the following antennas

Type	Part number	Manufacturer	Gain	Chains
Dipole	F51-N	Tekfun	2GHz: 4.5dBi max 5GHz: 7dBi max	1, 2, 3
Patch	SPA 2400/75/8/0/V	Huber & Suhner	2GHz: 7.5dBi max	1, 2, 3
Patch	SPA-5600/40/14/0/V_2	Huber & Suhner	5GHz: 14dBi max	1, 2
Patch	SPA-5600/65/9/0/MIMO	Huber & Suhner	5GHz: 9dBi max	1, 2, 3
Shark	SPA-5600/45/12/10/V	Huber & Suhner	5GHz: 12dBi max	1, 2

4.6 Module Co-location

The antenna used with this module must not be co-located or transmit simultaneously with any other antenna or transmitter, except in accordance with FCC multi transmitter product procedures. Co-location with one additional DT50RF module is allowed.