

VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

Product Specifications

RFID Module

REV: A 2018-03-01

No part of this document, including electronic or mechanical, may be photocopied, reproduced or transmitted in any form without prior express written permission of VIKINTEK INC.

Copyright March,2018

By

VIKINTEK INC.

Printed in Taiwan

VIKINTEK INC.

7F, No. 312, Jhonggang Rd., Sinjhuang Dist. New Taipei City 242, Taiwan

TEL : +886-2-8992 4002 FAX : +886-2- 8992 4005 Email : vikintek@ms49.hinet.net

VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

Federal Communication Commission Interference Statement

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.

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.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

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

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users.
- 2) The transmitter module may not be co-located with any other transmitter or antenna.
- 3) Module approval valid only when the module is installed in the tested host or compatible series of host which have similar RF exposure characteristic with equal or larger antenna separation distance.

As long as 3 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

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 Labeling

This transmitter module (PCBA A'SSY MOT 800 RF) 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. This transmitter module (PCBA A'SSY MOT 800 RF) and the semi-assembly component (MOT800-3RSVK) with this module are intended to installed into a final device. The final end product must be labeled in a visible area with the following: “Contains FCC ID: 2AO2NMOT800” . The grantee's FCC ID can be used only when all FCC compliance requirements are met.

Manual Information To the End User

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 integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

Notice

The information contained in this manual is subject to change without notice.

No part of this document, including electronic or mechanical, may be photocopied, reproduced or transmitted in any form without prior the express written permission of VIKINTEK INC.

This document contains proprietary information protected by copyright. All rights are reserved.

Revision

Revision	Date	Changed Notes
A	March,2018	Initial Release

Copyright March,2018
 By
 VIKINTEK INC.
 Printed in Taiwan

VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

Contents

1. INTRODUCTION	6
2. APPLICABLE CARDS.....	6
3. MODEL NAME :.....	6
4. GENERAL SPECIFICATIONS.....	6
5. DIMENSION	6
6. INSTRUCTION FOR SET-UP.....	7

VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

1. Introduction

The RFID Module is designed to be used in MOT800-3RSVK.

1.1 Reference standards:

Contactless card support ISO/IEC 14443 Type A & B from 106 kbps to 847 kbps

2. Applicable cards

2.1 Applicable contactless IC cards

Contactless IC card supported conforms to ISO14443 international standard Mifare 1 S50/S70.

Notes: There are totally 16 sectors for Mifare 1 S50/S70 and each sector has an independent operational access key.

ITEM	CONTENT
Standard	ISO 14443-A/B
Operating Frequency	13.56MHz
Communication Speed	106 kbps to 847 kbps

2. Model Name :

PCBA A'SSY MOT800 RB

4. General Specifications

Electrical	
Power Requirement	DC 5V± 5%
Power Consumption	Max. 500mA
Communication	SPI
Environment	
Operation	0°C ~ 50°C; 5% ~ 90% humidity without condensation
Storage	-30°C ~ 70°C; 5% ~ 90% humidity without condensation
Performance	
Card Type	Contactless card ISO/IEC 14443 Type A & B

5. Dimension

RFID Module Dimension	151.3L x 53.2W x 12.1H mm
-----------------------	---------------------------

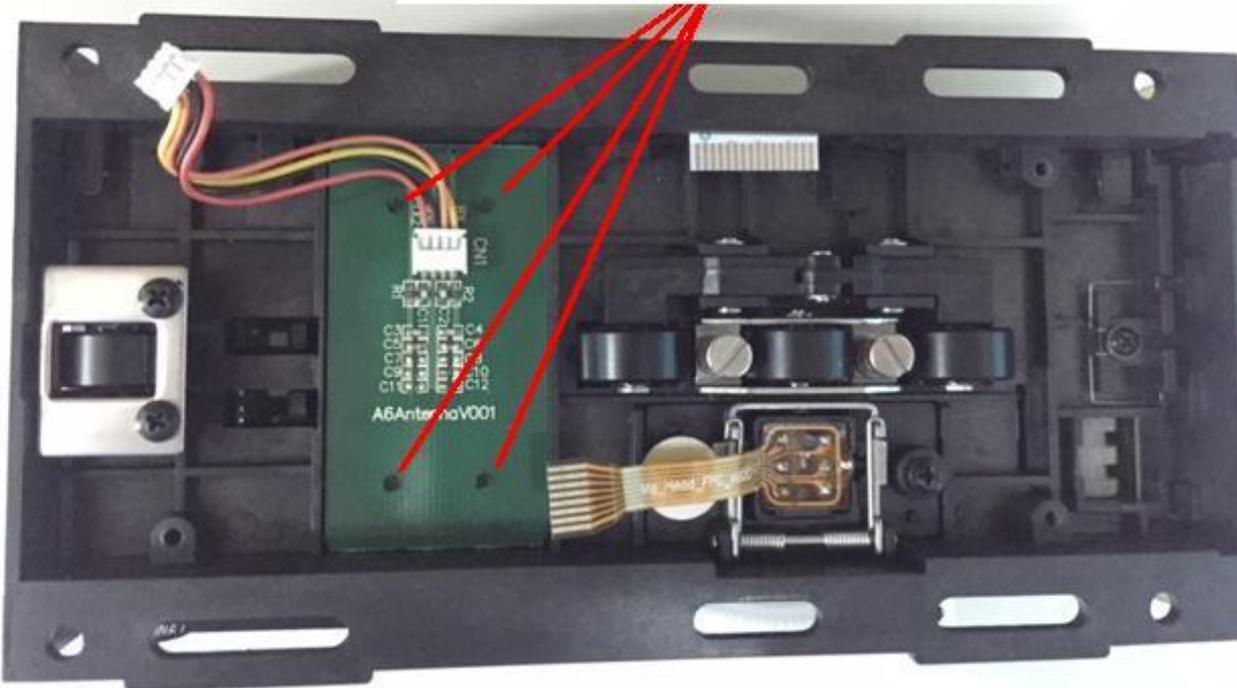
VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

6. Instruction for Set-up

How to assemble "RFID Module" into MOT800-3RSVK

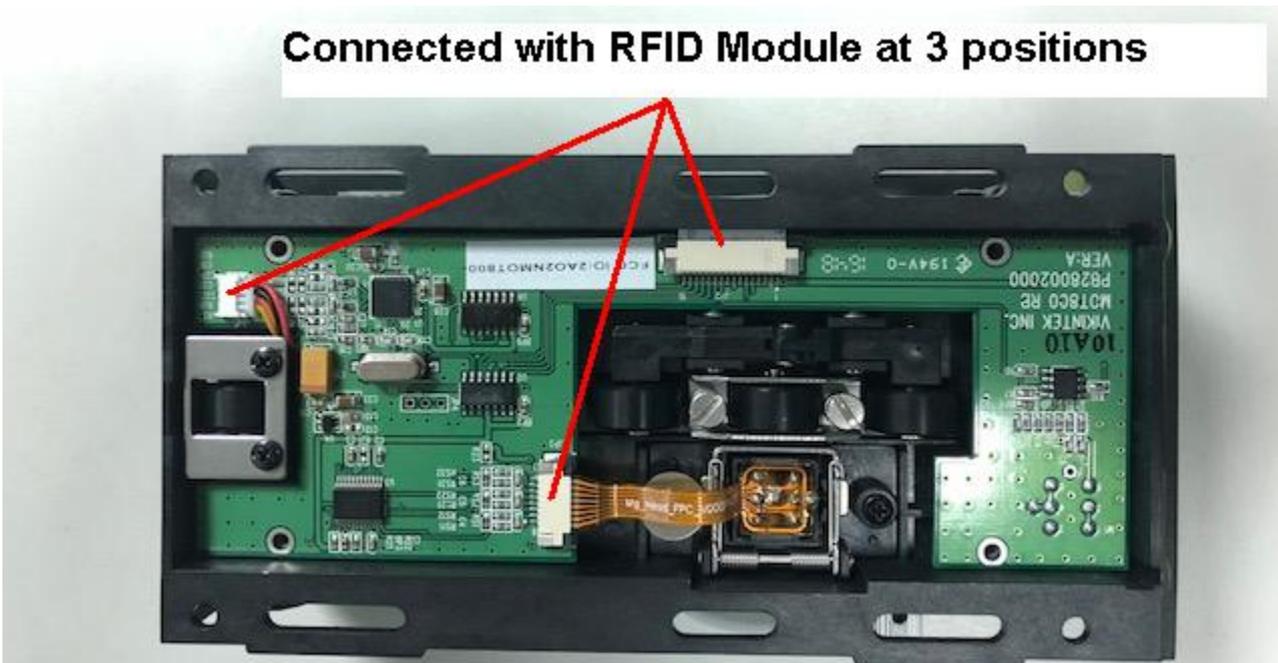
Step 1:

Antenna board soldered at 4 positions and fixed



Step 2:

Connected with RFID Module at 3 positions



VIKINTEK	Specification No.	Contactless Reader Module	Rev.	Page
	201803002	Model : PCBA A'SSY MOT800 RB	A	

Step 3:

