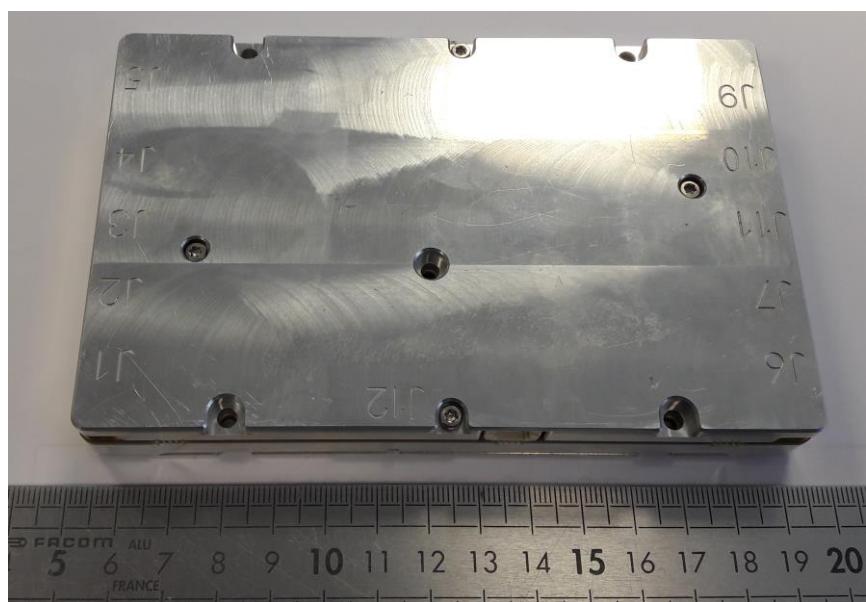
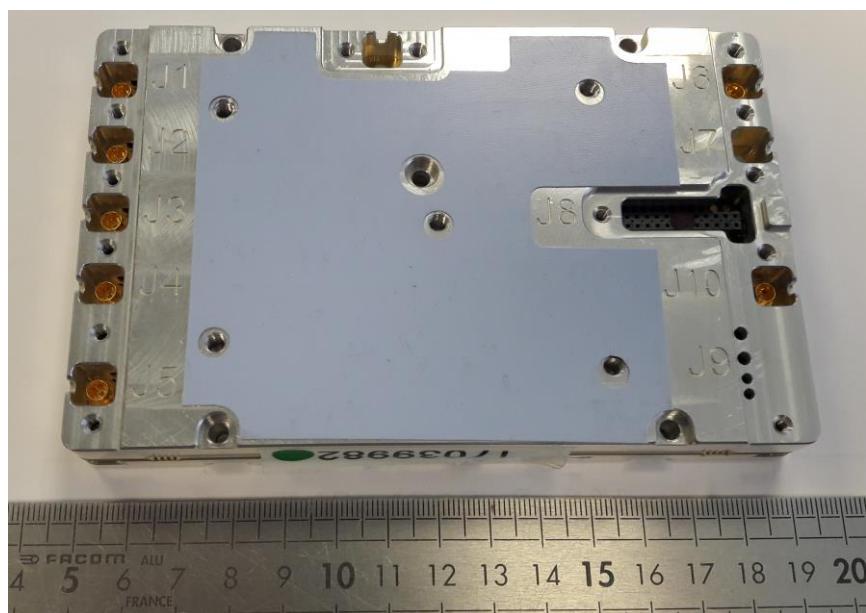


TrackMan™ RCM_V2

Installation and Safety Instruction

Model number: 40EU335001



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1 Introduction

This document provides instructions and warnings in order to safely install and operate the Radar Core Module (RCMv2).

This document does not describe the TrackMan™ application software and how to operate it. This is provided in separate document.

The output power is adjustable in order to comply to national regulatory EIRP requirement.

Antenna model	Antenna gain (dB)	Module Tx power CE/FCC (dBm)	Total power EIRP CE/FCC (dBm)
EU22 2010	12	15/21	27/33
EU22 2001	14	13/19	27/33
EU22 1001	16	11/17	27/33

Changes or modifications made to the equipment not expressly approved by Trackman A/S may void the FCC / IC authorization to operate this equipment.

The use of the transceiver module is authorized in mobile or fixed host devices taking into account the conditions listed below:

- OEM Integrator must ensure that the end user manual may not contain any information about the way to install or remove the module from the final product.
- Depending on the final host device additional authorization requirements for the non-transmitter functions of the transmitter module may be required (i.e., Verification, or Declaration of Conformity) The OEM integrator is responsible for ensuring that after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements.
- The information on the label and in the user manual is required to be incorporated in the user manual of the final host. see 47 CFR15 requirements for more details (e.g. 15.19 / 15.21 / 15.101 / 15.105 / RSS-GEN / ICES)
- Additional label with the words 'Contains FCC ID: SFX-40EU335001' and 'Contains IC:10140A-40EU335001' shall be applied and visible from the outside of the host product.
- The module must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the module.
- The end user manual for the final host product operating with this transmitter must include operating instructions to satisfy RF exposure compliance requirements.

2 Safety Instructions

2.1 Regulatory Notice

FCC compliance

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 Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies also with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

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.*

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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 or more 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/TC technician for help.

Caution

Never try to open or repair the device yourself. Any changes or modifications not expressly approved by TrackMan A/S could void the user's authority to operate the device.

2.2 Warning: Radiation Hazard

Radiation Safety Warning.

Radiofrequency radiation exposure Information:

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

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

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Ce transmetteur ne doit pas être placé au même endroit ou utilisé simultanément avec un autre transmetteur ou antenne.

2.3 Caution: Safety precautions

Use the following safety instructions to ensure your own personal safety and to help protect the TrackMan™ Driving Range system.

General

- Do not attempt to service the device yourself. Always follow installation instructions closely.
- Only use cables and accessories approved by TrackMan A/S.

TrackMan A/S accepts no liability for failure to comply with these requirements.

3 Installation instructions

The RCMv2 may only be installed inside a host device, and only with Trackman Antennas, EU22 2010, EU22 2001, EU22 1001.

The RCMv2 may only be operated at 12-24VDC and may never be used without metalhousing.

3.1 System description

The RCMv2 model is intended for use in a host device and not as a standalone unit.

The system comprise of a CW X-band radar (10.5GHz). The X-band Radar comprises 6 Receiver channels and 1 Transmitting channel (Transmitting three CW tones simultaneously, F1, F2 and F3). The Radar transmitter continuously illuminates the "target", and "target" reflects the signal which is received by the receiving antennas.

The measured data are converted and routed to the host device for processing.

3.2 System specifications

The RCMv2 is a robust construction, with chassis made of aluminum.

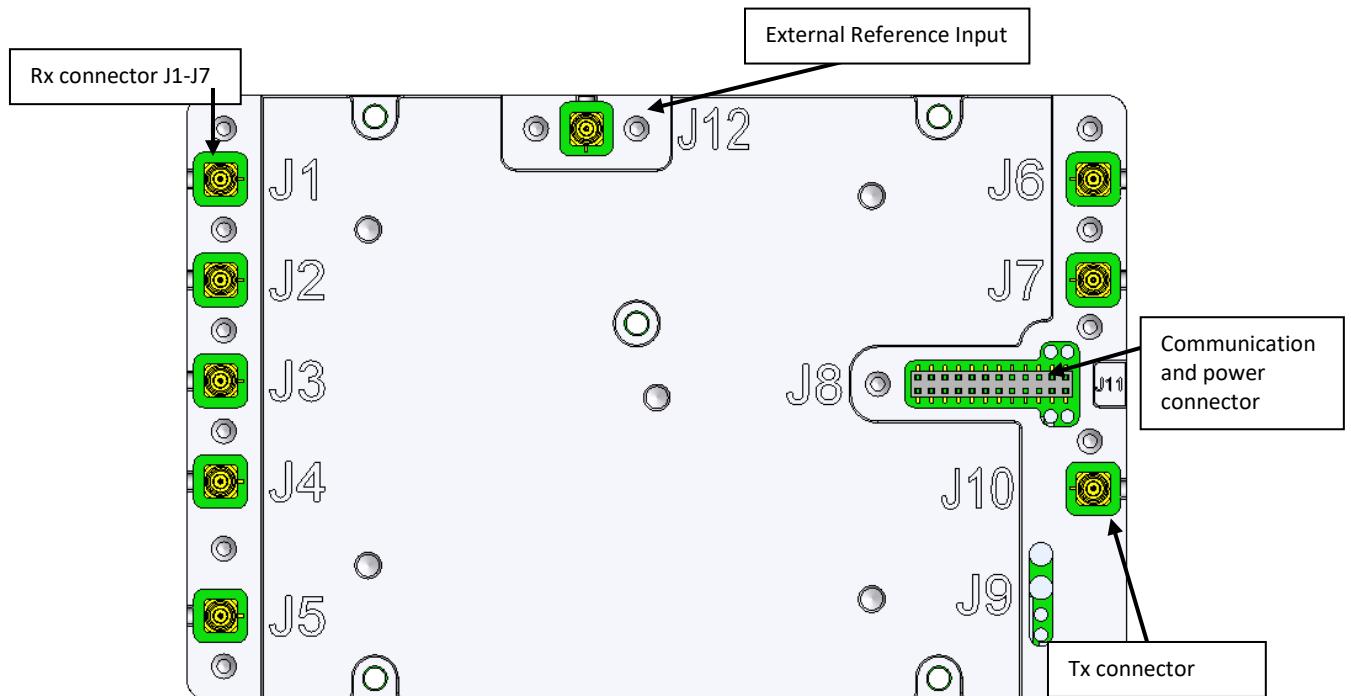


Figure 1: RCMv2, 40EU335001 front view

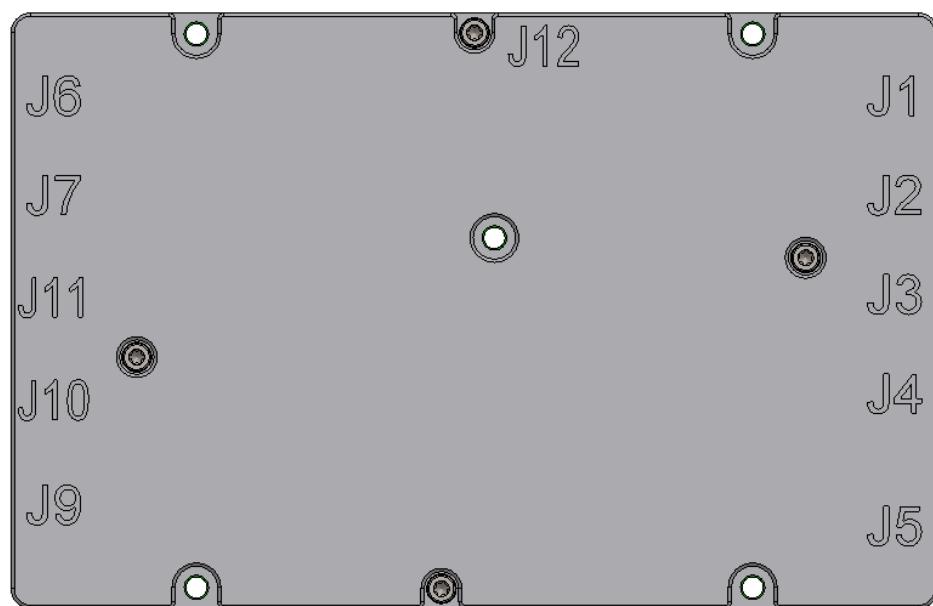


Figure 2: RCMv2, 40EU335001 Bottom view

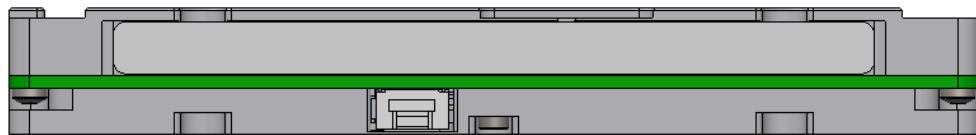


Figure 3: RCMv2, 40EU335001 Connector side view

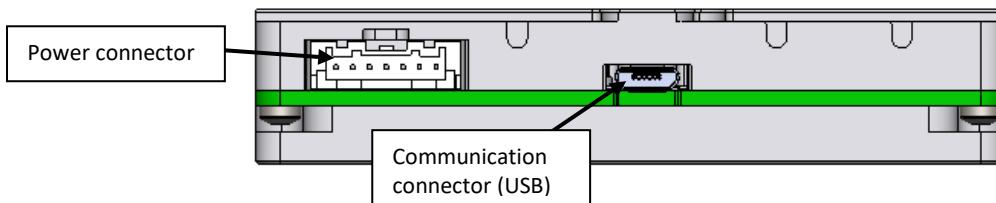


Figure 4: RCMv2, 40EU335001 Connector side view

RCMv2, 40EU335001 Specifications

Operating Frequency	CE Market: 10.500 - 10.600GHz US + CDN Market: 10.500 - 10.550GHz Operating frequency is fixed during manufacturing
Transmitter power	+21dBm (10GHz, US market) +15dBm (10GHz, CE Market)
Dimensions	Width: 140 mm Depth: 90 mm Height: 20 mm
Mass	~0,4 kg
Power consumption	25W, 10-24VDC
Data interface	USB
Functional temperature range:	-10° to + 50°C
FCC ID	SFX-40EU335001
IC	10140A-40EU335001
Certified with antenna model(s) only	EU22 2010, EU22 2001, EU22 1001

4 Warranty Comments

The RCMv2 contains NO user serviceable parts inside. In case of defect or malfunctioning RCMv2, TrackMan A/S authorized personal ONLY must repair the unit.