

TECHNICAL INFORMATION MANUAL

Revision 00 – 01 March 2016

qDock RA0005

qIDmini docking station



PRELIMINARY

Visit [qDock RA0005](#) web page, you will find the latest revision of data sheets, manuals, certifications and technical drawings.
All you need to start using your product in a few clicks!

Scope of Manual

The goal of this manual is to provide the basic information to work with the RA0005 - qDock - qIDmini docking station.

Change Document Record

Date	Revision	Changes	Pages
01 Mar 2016	00	Preliminary release	-

Reference Document

[RD1] EPCglobal: EPC Radio-Frequency Identity Protocols Class-1 Generation-2 UHF RFID Protocol for Communications at 860 MHz – 960 MHz, Version 2.0.1 (April, 2015).

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Preliminary Product Information

This document contains information for a new product. CAEN RFID reserves the right to modify this product without notice.

“Preliminary” product information describes products that are ready for production, but for which full characterization data is not yet available. CAEN RFID believes that the information contained in this document is accurate and reliable. However, the information is subject to change without notice and is provided “AS IS” without warranty of any kind (Express or implied). You are advised to obtain the latest version of relevant information to verify, before placing orders, that information being relied on is current and complete. All products are sold subject to the terms and conditions of sale supplied at the time of order acknowledgement, including those pertaining to warranty, patent infringement, and limitation of liability. No responsibility is assumed by CAEN RFID for the use of this information, including use of this information as the basis for manufacture or sale of any items, or for infringement of patents or other rights of third parties.

Federal Communications Commission (FCC) Notice (Preliminary)

This device was tested and found to comply with the limits set forth in Part 15 of the FCC Rules. Operation is subject to the following 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. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This device generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instruction manual, the product may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case, the user is required to correct the interference at their own expense. The authority to operate this product is conditioned by the requirements that no modifications be made to the equipment unless the changes or modifications are expressly approved by CAEN RFID.

Disposal of the product

Do not dispose the product in municipal or household waste. Please check your local regulations for disposal/recycle of electronic products.



Index

Scope of Manual.....	2
Change Document Record.....	2
Reference Document.....	2
Index.....	4
List of Figures.....	4
List of Tables.....	4
1 INTRODUCTION.....	5
Product Description.....	5
Accessories.....	6
Ordering Options.....	6
2 qDock TECHNICAL SPECIFICATIONS.....	7
Technical Specifications Table.....	7
3 qDock REGULATORY COMPLIANCE.....	8
FCC Compliance.....	8
RoHS EU Directive.....	8

List of Figures

Fig. 1.1: qDock RA0005 qIDmini docking station.....	5
Fig. 1.2: qDock RA0005 Accessories.....	6

List of Tables

Tab. 2.1: qDock RA0005 Technical Specifications Table.....	7
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1 INTRODUCTION

Product Description

The qDock RA0005 is a low cost, Multiple Charging Docking Station & USB 2.0 Hub that allows to charge and connect for Data & Firmware upgrade up to three qIDmini R1170I readers directly through their micro USB connector and without cables.

The docking station is provided together with its External Power Supply to be connected to a power socket for charging. When connected to the power supply, the docking station can charge up to three qIDmini Readers in parallel with a full current rate (500 mA).

The USB device port allows to connect the docking station to a PC to upgrade the firmware of the readers when needed. The USB port alone (without the Power supply) allows to charge a single Reader (due to the input USB current limitation). To this purpose, insert the Reader into the slot in the center.

The docking station can be also wall mounted using the provided hooks.

Two LEDs positioned near the side power jack and the USB connector indicate respectively the charging status (green when charging), and the communication status (orange when connected).



Fig. 1.1: qDock RA0005 qIDmini docking station

Accessories

Check for the supplied accessories below:

 <p>No. 1 USB cable</p>	 <p>No. 1 Power supply</p>	 <p>No. 4 rubber feet</p>
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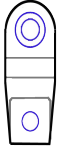
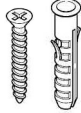

Wall mounting kit:		
 <p>No.2 wall hooks</p>	 <p>No.2 rawlplugs (ø 4 mm) +screws</p>	 <p>No. 2 small screws (ø 3 mm)</p>

Fig. 1.2: qDock RA0005 Accessories

Ordering Options

	Code	Description
Accessories	WRA0005XAAAA	RA0005 - qDock - qIDmini docking station – White
	WRA0005XGAAA	RA0005 - qDock - qIDmini docking station – Gray

2 qDock TECHNICAL SPECIFICATIONS

Technical Specifications Table

Function	Docking Station
USB Interface	USB 2.0 Full Speed (12 Mbit/s)
USB Connector to Reader	Micro type B
USB Connector to PC - Cable	Type B
User Interface	Green LED ON: external Supply active Orange LED ON: USB Communication ON
Power Supply Input	5 V dc \pm 5% @ 2A max
Power Supply Connector	Power Jack - Negative Central Pin
Battery Charging Time	2h (typical)
Operating Temperature	-10°C to +55°C
IP Rating	IP 40
Dimensions	(W)288 x (L)140 x (H)34 mm ³ max. (11.3 x 5.5 x 1.3 in ³)
Enclosure	ABS

Tab. 2.1: qDock RA0005 Technical Specifications Table

3 qDock REGULATORY COMPLIANCE

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 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:

- a. Reorient or relocate the receiving antenna.
- b. Increase the separation between the equipment and receiver.
- c. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- d. 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.

Any changes or modification not approved by CAEN RFID could void the user's authority to operate the equipment.

RoHS EU Directive

qDock RA0005 docking station is compliant with the EU Directive 2011/65/CE on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).