

TECHNICAL INFORMATION MANUAL

Revision 01 – 31 May 2019

qDock RA0005

qIDmini docking station



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	-
31 May 2019	01	Added <i>Mod. RA0005 - qDock - qIDmini docking station – Gray</i> in the <i>Introduction</i> paragraph and in the <i>Ordering Options</i> paragraph	5, 6
		Modified <i>Regulatory Compliance</i> chapter	8÷10

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).
- [RD2] G.S.D. s.r.l. - Report Federal Communication Commission (FCC) – RA0005 - qDock - qIDmini docking station. Test report n. FCC-16513 Rev. 00 – 25 Aug 2016
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The information contained herein has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. CAEN RFID reserves the right to modify its products specifications without giving any notice; for up to date information please visit www.caenrfid.com.

Federal Communications Commission (FCC) Notice

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.



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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 - White



Fig. 1.2: qDock RA0005 qIDmini docking station - Grey

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>

Wall mounting kit:

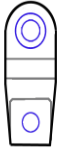


		
<p>No.2 wall hooks</p>	<p>No.2 rawlplugs (ø 4 mm) +screws</p>	<p>No. 2 small screws (ø 3 mm)</p>

Fig. 1.3: qDock RA0005 Accessories

Ordering Options

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

2 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 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.

Reference document:

Test report n. FCC-16513 [RD2].

See § *qDock RA0005 FCC Grant* page 10 for the qDock RA0005 FCC Compliance Certificate.

CE Compliance

Reference standard:

CEI EN 55032:2015

CEI EN 61000-3-2:2015

CEI EN 61000-3-3:2014 +/EC:2014

CEI EN 55024:2013 +/A1:2015

CEI EN 60950-1:2007 +/A11:2010 +/A2:2014 +/A12:2014 + A1:2014

See § *qDock RA0005 CE Declaration of Conformity* page 9 for the qDock RA0005 CE Compliance Certificate.

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 (RoHS2).

qDock RA0005

CE DECLARATION OF CONFORMITY

We

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herewith declare under our own responsibility that the products:

Code: WRA0005XAAAA
Description: RA0005 - qDock - qIDmini docking station - White
and
Code: WRA0005XGAAA
Description: RA0005 - qDock - qIDmini docking station - Gray

correspond in the submitted version to the following standards:

CEI EN 55032:2015
CEI EN 61000-3-2:2015
CEI EN 61000-3-3:2014 +/EC:2014
CEI EN 55024:2013 +/A1:2015
CEI EN 60950-1:2007 +/A11:2010 +/A2:2014 +/A12:2014 + A1:2014

and declare under our sole responsibility that the specified products meet the principle requirements and other applicable regulations of directives 2014/30/EU (EMC) and 2011/65/EU (RoHS2)

Date: 31/05/2019


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Adriano Bigongiari (Chief Executive Officer)



On the basis of this declaration, these products will bear the following mark:

qDock RA0005

FCC GRANT

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

TCB

Certification

Issued Under the Authority of the
Federal Communications Commission

By:

EMCCert Dr. Rasek GmbH
Stoernhofer Berg 15
91364 Unterleinleiter,
Germany

Date of Grant: 09/06/2016

Application Dated: 09/06/2016

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Attention: Adriano Bigongiari , CEO

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: UVECAENRFID018

Name of Grantee: CAEN RFID srl

Equipment Class: Part 15 Class B Computing Device Peripheral
Notes: RA0005 - qDock - qIDmini docking station

Grant Notes

FCC Rule Parts
15B

Frequency
Range (MHZ)

Output
Watts

Frequency
Tolerance

Emission
Designator

