Important: All Approval and safety information is outlined in the ‘WORKABOUTPRO4 Regulatory & Warranty Guide – part number 8000296 provided with each WORKABOUTPRO4.

Warning: The WORKABOUTPRO4 with the RFID option must not be held closer than 20 cm from the rest of the body. This product must not be used in a holster or on a belt-clip. RFID cannot be used in co-transmission with WAN module.
1. Product Description

Easily installable expansion modules for the WORKABOUT PRO4 allow you to customise this hand-held to meet your specific mobile computing requirements. This chapter outlines how to install the AMERICAN UHF CIRCULAR RFID Module.

The RFID MODULE UHF CIRCULAR (WA9903) kit is based on the Sailfish UHF module from MOTOROLA Inc. (Model: 21-121559). It is made of 4 parts:

- ASSY MODULE UHF WAP4 AMERICAN
- ASSY ANTENA CIRCULAR AMERICAN WAP4
- INSTRUCTION SHEET WAP4 UHF CIRCULAR AMERICAN
- LABELS FCC WAP4 UHF CIRCULAR VARIANT

Figure 1-1 ASSY MODULE UHF WAP4 AMERICAN

Figure 1-2 ASSY ANTENA CIRCULAR AMERICAN WAP4

Figure 1-3 INSTRUCTION SHEET WAP4 UHF CIRCULAR AMERICAN
2. **Product Installation**

Before installing a module in the WORKABOUT PRO4, all power sources must be turned off.

- Remove the battery. If your unit is using AC power, disconnect it.

![Battery location](image1)

**Figure 2-1**  *Battery location*

With the power shut down, you can now install the American RFID Module UHF CIRCULAR.

- Remove the existing endcap and pod or backplate

![WAP4 Disassembled](image2)

**Figure 2-2**  *WAP4 Disassembled*
• Slide the RFID Module inside the back opening

Figure 2-3  RFID Module Assembly

• Drive (2Kgf.cm / 1.7 lbs.In) the 4 screws that fix the RFID module on WAP4 frame

Figure 2-4  RFID Module Assembly
• Stick EMI Gaskets on the RFID module as shown hereafter:

• Plug the 2 U.FL antenna connectors to the Sailfish module.

**Warning: Make sure you use the proper RF port**

![Image of UFL connector with white rubber on the right port.]

*Figure 2-5  CIRCULAR ANTENNA Assembly*
• Reassemble the pod antenna and the endcap (3 Kgf.cm / 2.6 lbs.In)

Figure 2-6 Final Assembly

For WAP4 with WWAN (7528XPUHFN) affix label showing ‘MODEL: 7528XPUHFN’. For WAP4 with WLAN only (7528XUHFN) affix label showing ‘MODEL: 7528XUHFN’.

Stick the label in the location following depending on WorkAbout Pro4 variant:

Figure 2-7 WorkAbout Pro4 Long Alphanumeric Keyboard Figure 2-8 WorkAbout Pro4 Short Numeric Keyboard
3. **BooST configuration**

For this installation, you will also need BooST script software, a USB flash drive, and a desktop docking station. Please contact [www.motorolasolutions.com/support](http://www.motorolasolutions.com/support) to receive the appropriate BooST script software.

4. **Software installation:**


   - Copy and install the latest CAB file named "WAP4 RFID UHF CAB".

[Figure 4-1  Driver CAB file](#)  
[Figure 4-2  Driver installation](#)
After installation, select **RFID Demo** in the Start menu to start the RFID sample application.

To read the ID of TAG, press the **Trigger button**. Put the TAG in front of the antenna. Release trigger button to terminate tag reading.

For detailed instructions on how to use the RFID demo application, please visit [https://portal.motorolasolutions.com](https://portal.motorolasolutions.com) and download [WAP4 RFID Mobile Computer User Guide](https://portal.motorolasolutions.com).
5. **Reading area:**

This area depends on the TAG type, TAG packaging, Tag position and environment (metallic or not).

![Reading Area Diagram](image)

**Figure 5-1 Reading area**
IMPORTANT NOTE FOR NORTH AMERICA:

The RFID must not be used whilst the host WORKABOUTPRO4 is being powered by the ac/dc adaptor.

FCC Information to Users:

Radiation Exposure Compliance
This product complies with the FCC RF exposure limits for an uncontrolled environment. For continued compliance, the product must not be held closer than 20 cm from the rest of the body. This product must not be used in a holster or on a belt-clip.

The host WORKABOUTPRO4 is configured to prevent WAN and RFID to be in co-transmission. The user cannot activate both at the same time.


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.

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 UNDESIRABLE OPERATION.

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.
Emissions Information for Canada:

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 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.