

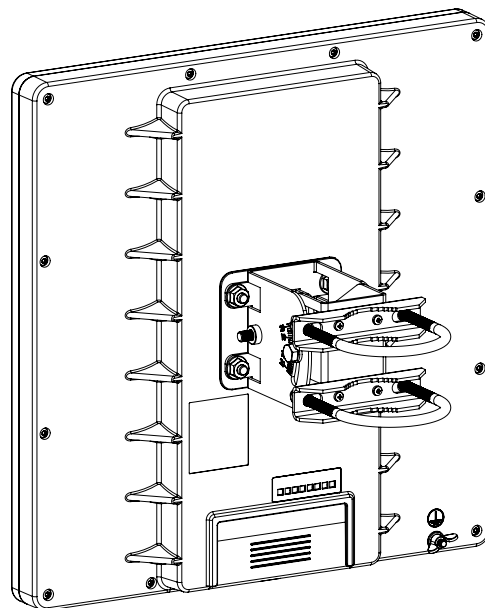
RouterBOARD QRTG-2SHPnD

Quick Setup Guide and Warranty Information

The RouterBOARD QRT comes as a complete kit. It includes a built in 802.11b/g/n dual chain wireless device, and a dual polarization 17dBi antenna. It has one Gigabit Ethernet connector which supports MDI-X auto detection.

First use

1. Connect an Ethernet cable to the port behind the small plastic door
2. The QRT accepts 24V Passive PoE from a PoE injector
3. The default IP address from LAN is 192.168.88.1 for configuration from a web browser
4. Username is **admin** and there is no password



Powering

The device accepts powering from the Ethernet port (Passive PoE) 8-30V DC. Package contains a 24V adapter. Maximum power consumption of the device is 21W @ 24V. s

Booting process

Initial connection has to be done via the Ethernet cable. Open **192.168.88.1** in your web browser. Username is **admin** and there is no password. In case IP connection is not available, Winbox can be used to connect to the MAC address of the device. More information here:

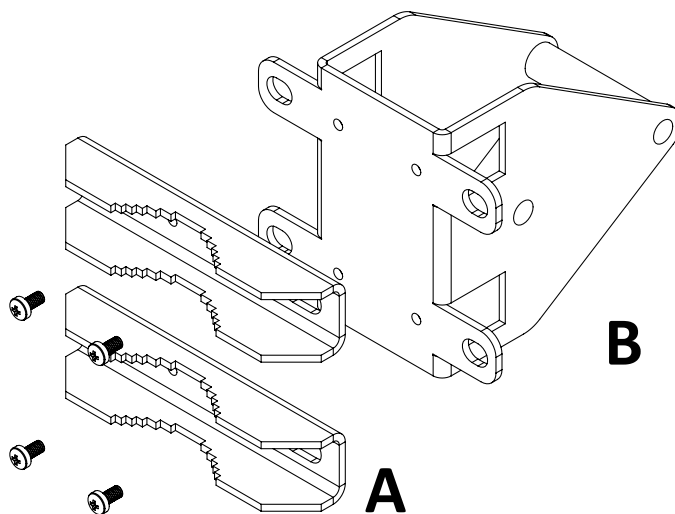
http://wiki.mikrotik.com/wiki/First_time_startup

In case you wish to boot the device from network, for example to use MikroTik Netinstall, hold the RESET button of the device when starting it until the LED light turns off, and Metal will start to look for Netinstall servers.

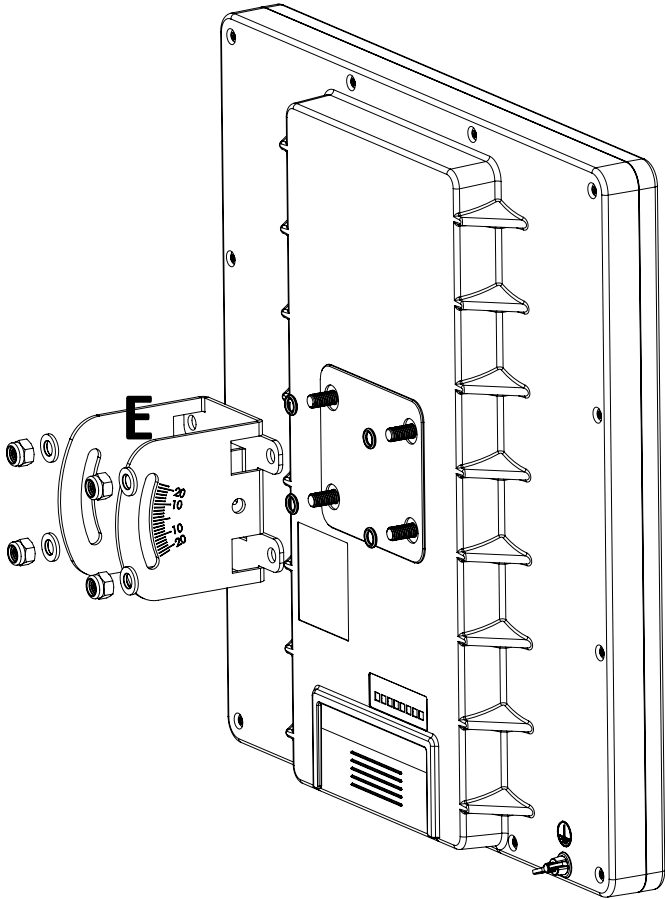
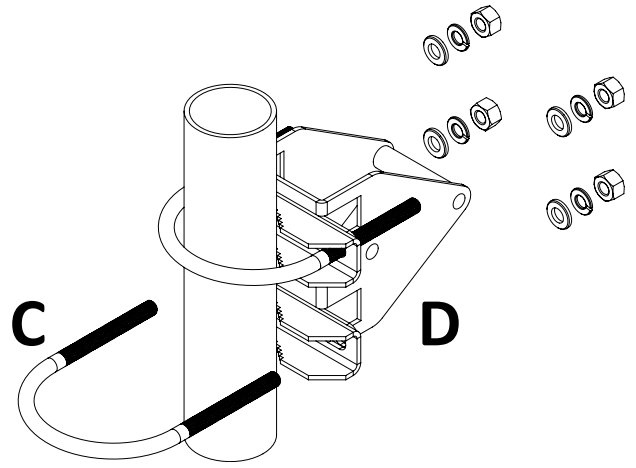
Mounting

The QRT box contains several parts that need to be assembled. Please follow this process:

Start by attaching the two pole brackets (A) to the swivel adjuster (B), by using the four provided screws (use a PH1 screwdriver).



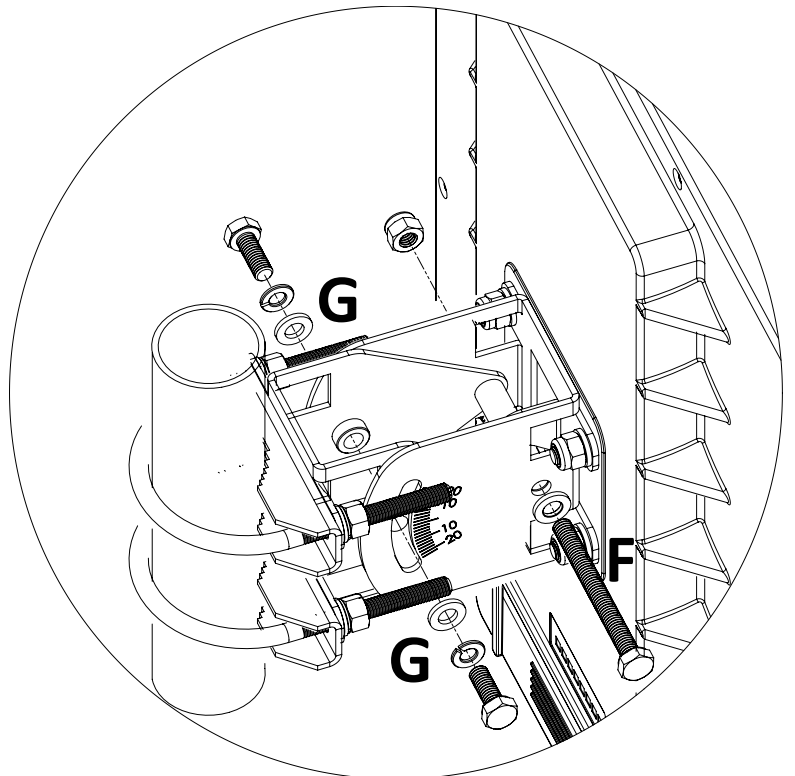
Next, put the two U-bolts (C) around the mast or pole, and guide them through the holes on the swivel adjuster (D). Then, tighten the U-bolts, each with one regular washer, one spring washer, and one nut, as shown in the image to the right. All nuts need to be tightened using a size 10 (3/8 in) wrench.



Now take the mounting bracket (E), and put it on to the back of the antenna. Use one rubber ring, one washer, and one nut for each of the built-in bolts (in that order).

Finally, attach the swivel adjuster to the mounting bracket. Use the long bolt in the position (F). Put one regular washer, and one spring washer onto the shorter screws, then put them in positions (G). Do not tighten too much, as you need to adjust the antenna now.

Once antenna level and angle are adjusted according to the wireless signal in software, tighten all nuts. Note the degrees of angle for future reference.



Buttons and Jumpers

- RouterOS reset jumper hole (access through the plastic door) – resets RouterOS software to defaults. Must short circuit the metallic sides of the hole (with a screwdriver, for example) and boot the device. Hold screwdriver in place until RouterOS configuration is cleared.
- RouterBOOT reset button (access through the plastic door) has two functions:
 - ✓ Hold this button during boot time until LED light starts flashing, release the button to **reset RouterOS configuration** (same result as with reset hole)
 - ✓ Hold this button during boot time longer, until LED turns off, and then release it to make the device **look for Netinstall servers**.

Operating System Support

Currently tested operating system is MikroTik RouterOS (starting from version v5.20).

Copyright and Warranty Information

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Hardware. MikroTiks SIA warrants all RouterBOARD series equipment for the term of fifteen (15) months from the shipping date to be free of defects in materials and workmanship under normal use and service, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature.

If you have purchased your product from a MikroTik Reseller, please contact the Reseller company regarding all warranty and repair issues, the following instructions apply **ONLY** if you purchased your equipment directly from MikroTik Latvia

To return failed unit or units to MikroTiks you must perform the following RMA (Return Material Authorization) procedure. Follow the instructions below to save time, efforts, avoid costs, and improve the speed of the RMA process.

Instructions are located on our webpage here: <http://rma.mikrotik.com>

Manual. This manual is provided “as is” without a warranty of any kind, expressed or implied, including, but not limited to, the implied warranty of merchantability and fitness for a particular purpose. The manufacturer has made every effort to ensure the accuracy of the contents of this manual; however, it is possible that it may contain technical inaccuracies, typographical or other errors. No liability is assumed for any inaccuracy found in this publication, nor for direct or indirect, incidental, consequential or other damages that may result from such an inaccuracy, including, but not limited to, loss of data or profits. Please report any inaccuracies found to support@mikrotik.com

Federal Communication Commission Interference Statement (FCC ID: TV7QRTG2SHPND)



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 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 device and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

IMPORTANT: Exposure to Radio Frequency Radiation.

28 cm minimum distance has to be maintained between the antenna and user. Under such configuration, the FCC radiation exposure limits set forth for a population/uncontrolled environment can be satisfied.