

# ROOT A TOON–QUICK REFERENCE GUIDE

## TOON 2

The Toon 2, internally called the NXT and the QB3, is announced around May 2018 and since then being installed in general public. For existing customers renewing their contract and for new customers the Toon 2 is installed. The Toon 2 can be identified to have no Ethernet port in the bottom of the Toon. Also the Toon 2 has more curved corners than the Toon 1, has a more yellow-ish white colored casing, has more hardware sensors and is much faster in usage. The backplate of both the Toon 2 and Toon 1 are not compatible with each other.

### SOFTWARE ROOTING

Rooting the Toon 2 is only possible using the software rooting method which can be found here: <https://github.com/ToonSoftwareCollective/Root-A-Toon>

## TOON 1

The Toon 1 is actually the 2nd generation, called the QB2. However, the QB1 (1st generation) didn't make it to the general public. So we are calling this one the Toon 1. This Toon 1 does have a Ethernet port in the bottom of the Toon, which is easiest method to differentiate between a Toon 1 and Toon 2.

### SOFTWARE ROOTING

Just like the Toon 2 this older Toon can also be rooted using the software rooting method on <https://github.com/ToonSoftwareCollective/Root-A-Toon> which is the easiest and preferred way.

### HARDWARE ROOTING

Rooting using a hardware method is only possible for the Toon 1. This is now less preferred as it might damage your toon while rooting. But if you still want to or need it because software rooting isn't working you can follow the next options.

#### FIRST – OPENING THE TOON

Rooting a Toon 1 requires you to open the Toon casing. Because you need access to the JTAG and Serial pins on the inside of the Toon. However, opening the Toon 1 is remarkably easy to do. If you follow the first 11 minutes of this video you can see how easy it is. <https://www.youtube.com/watch?v=0ojFe4Q7vDs>

#### AUTOMATIC ROOTING

When the Toon 1 is opened and the JTAG and serial pins are exposed, you are able to root the device. We prefer to use the automatic rooting method. This software and a README how to do this is available on <https://github.com/martenjacobs/ToonRooter> For this to work you need a Raspberry PI (or another device with a JTAG debugger attached) and few jumper cables. Depending of the boot version of the Toon 1 you only need 3 wires (serial only) or else 12 (serial

plus jtag) wires. The script will identify the boot version and will only use the 3 wires if that is possible.

## MANUAL ROOTING

Manual rooting can be done if you like to things yourself or want to know what is going on. You can follow the manual at

<https://www.domoticaforum.eu/viewtopic.php?f=100&t=11235#p82533> however this manual is a bit outdated. If you follow the manual don't follow it without thinking and knowing what you are doing (if so, you should have used the automatic rooting guide).