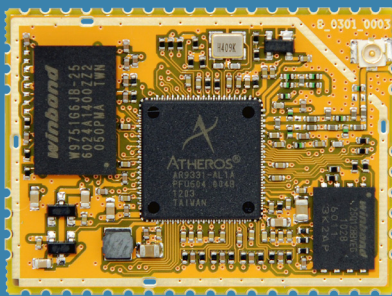
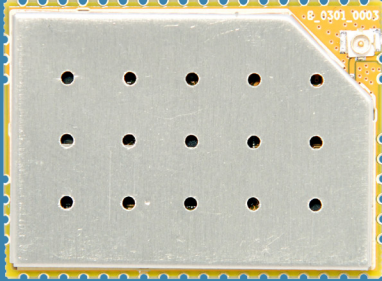


Carambola 2



8devices Carambola 2 is a member of Carambola wireless modules family and is based on Qualcomm/Atheros AR9331 SoC.

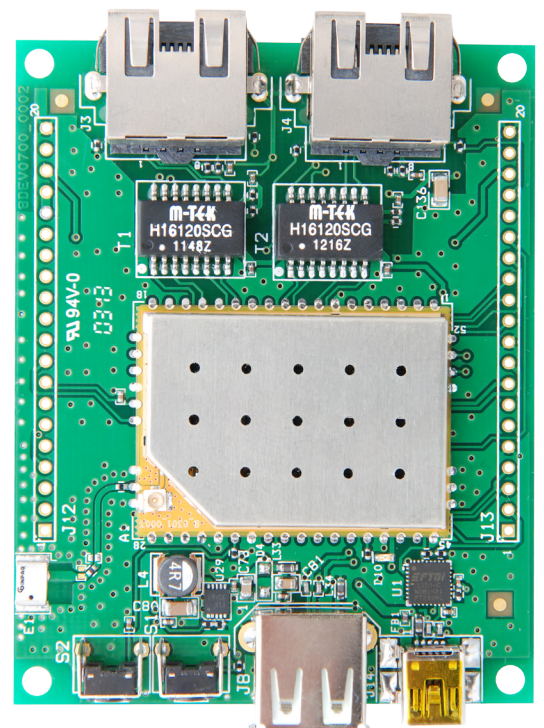
Carambola 2 is a surface mountable, single sided, Wi-Fi enabled Linux module, featuring the lowest power consumption in the industry.

Module comes bundled with an open source development board for a quick start of your new Internet of Things era project.

8devices is providing OpenWRT linux distribution source code with necessary patches on GitHub <https://github.com/8devices> and is supported by our growing community on <http://www.8devices.com/community> forum.

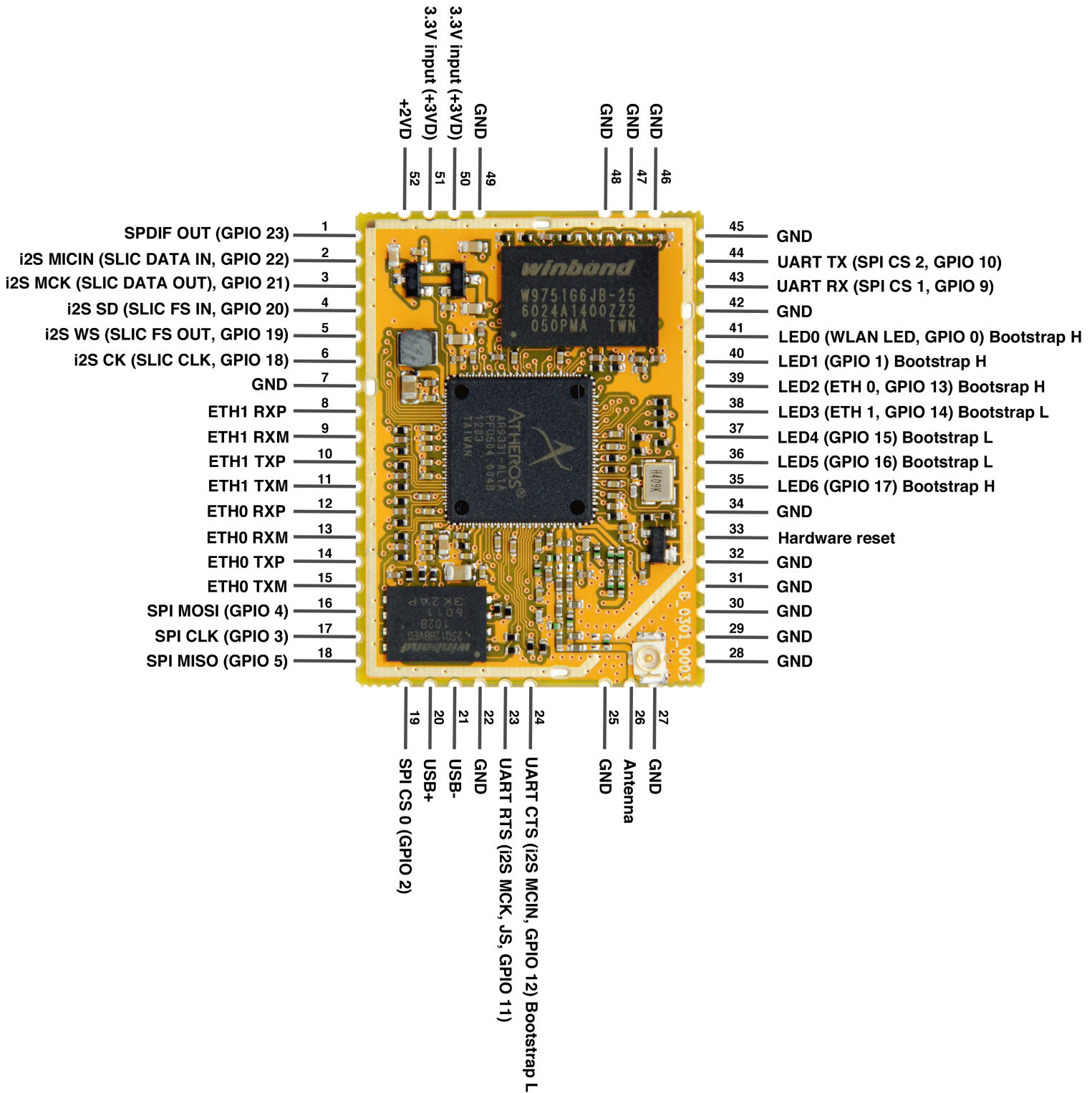
Quick specs

- 802.11 b/g/n, 2.4 GHz, 1x1 SISO, 150Mbps max data rate, 21 dB output power
- U.FL connector or external pin for external antenna
- 16 MB FLASH, 64 MB DDR2 RAM
- Linux friendly , OpenWRT flash image and source code are available for download on www.8devices.com/wiki_carambola
- CPU – AR9331, 400 MHz clock speed
- 28 by 38 mm Size – small and easy to embed
- Surface mountable
- Power supply - 3.3 V, power consumption 0.5 W
- Available interfaces - USB host/slave, serial port, 2 x Ethernet, i2S, SLIC, SPDIF, 23 x GPIO



Carambola 2

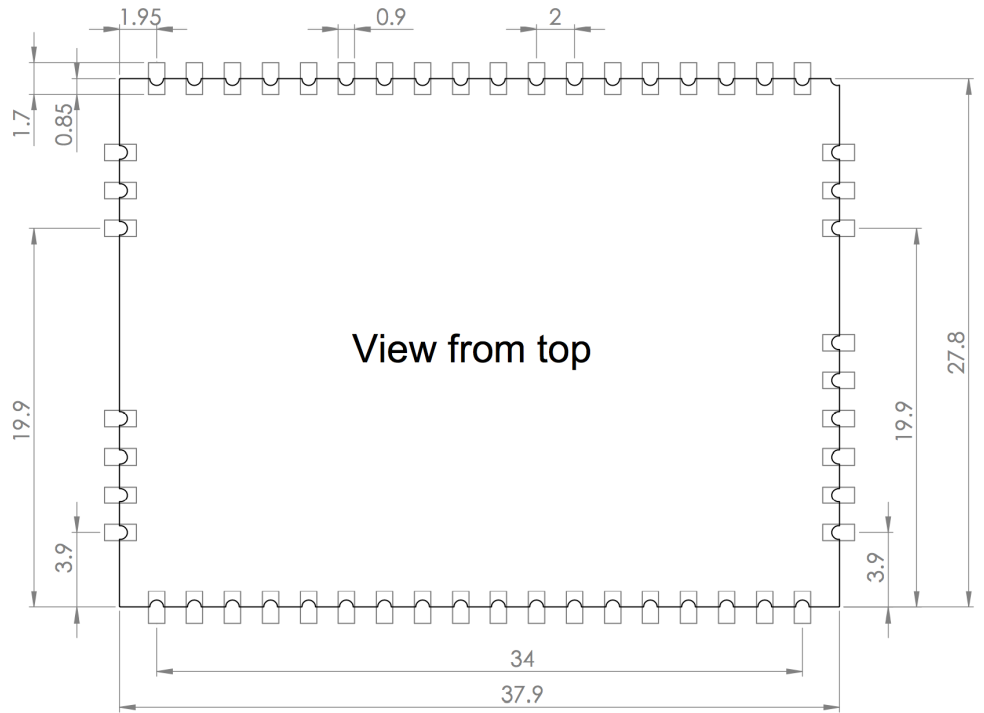
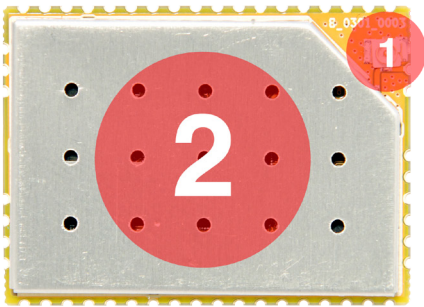
Pinout information



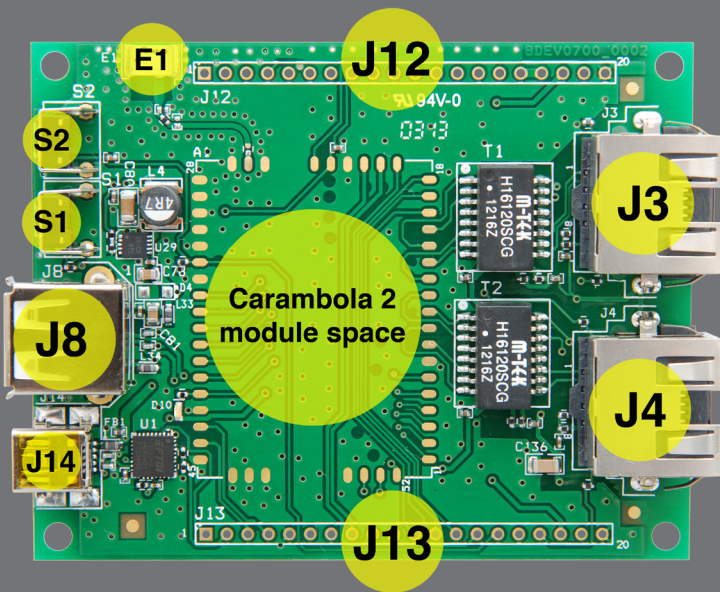
Carambola 2

Carambola 2 details

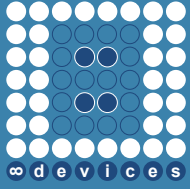
- 1) Male UFL connector for external antenna
- 2) RF shield



Carambola 2 development board



- E1** - Integrated 2.4 GHz chip antenna
- J12, J13** - 2 x 10 2.54 mm pitch prototyping area holes
- J3** - ETH0 LAN port
- J4** - ETH1 LAN port
- J8** - Type A USB socket
- J14** - Mini - A USB socket (console + power 5V)
- S1** - Hardware reset button
- S2** - GPIO programmable button



8DEVICES | *Datasheet*

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