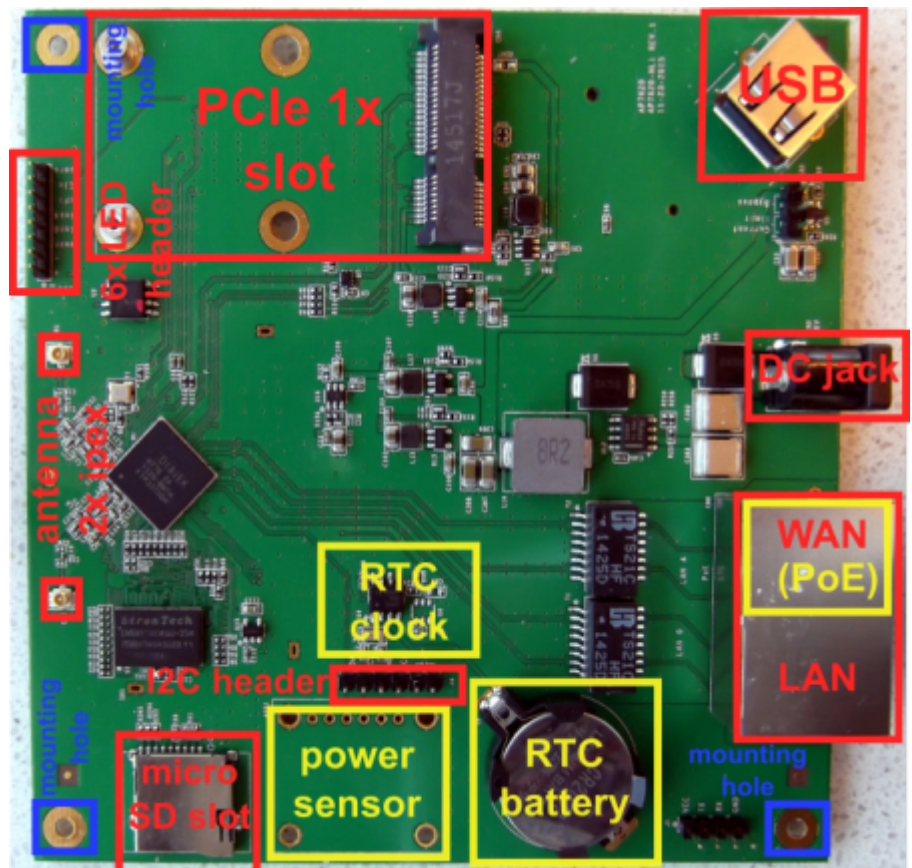


BlueMark 2000 series

Availability: April/May 2016

specifications

The BlueMark 2000 series sensor is based on the MediaTek MT7620a chipset. The main specifications are:



- chipset MediaTek MT7620a ([datasheet](#), [programming guide](#))
- MIPS24KEc (580 MHz) with 64 KB ICache and 32 KB D-Cache
- 64 Mbyte RAM
- 8 Mbyte flash
- DC input voltage: 9V to 24V
- -20 to 55 °C ambient temperature range
- microSD slot for saving sensor data
- PCIe port to support industrial 3G/4G modems
- USB port to support external USB devices such as 3G/4G dongles and WiFi 5 GHz dongles (*only if PCIe is not in use.*)
- power on/off PCIe/USB devices via software to reduce power consumption ([GPIO pins](#))
- I2C interface (for sensors and displays)
- option GPS via 3G/4G module
- 2x [ipex](#) antenna connector
- 8 dBi antenna with ground plane and integrated quadband 2G/3G/4G antenna

- mounting holes
- OS: openWRT 15.05
- configuration via built-in webserver or editing configuration files directly
- SSH terminal access
- dimensions PCB: 12 by 12 cm
- dimensions outdoor enclosure: 24 by 13.5 by 8 cm
- PoE (IEEE 802.3af) on WAN port
- hardware RTC clock for saving time ([bq32002 datasheet](#))
- power sensor [INA219](#) to read out actual power consumption and battery level ([ina219 datasheet](#))

power consumption

- 0.75 W no Ethernet or dongle (3G)
- 1.0 W Ethernet connection (WAN)
- 1.1 W 3G connection (connected and idle), no Ethernet connection
- up to 1.5 W 3G connection Quectel UC15 (connected and active)

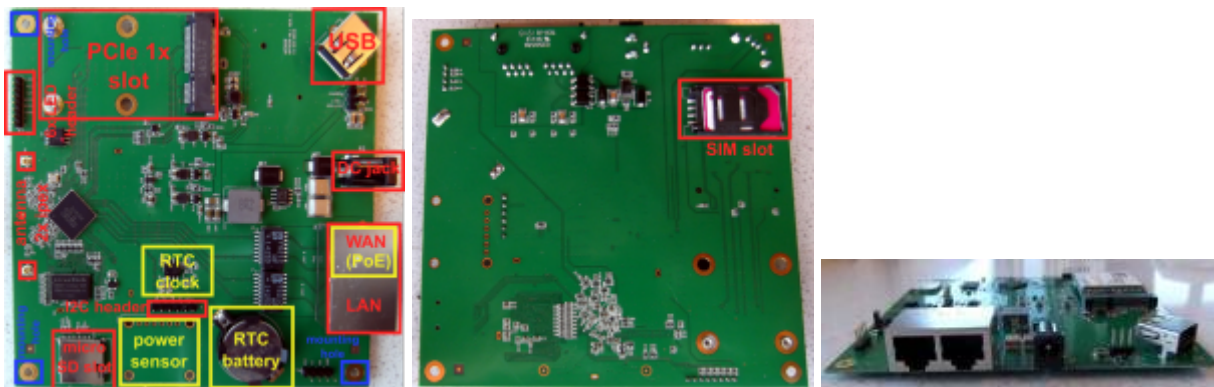
note: PCIe or USB dongle can be shut down from power by software in order to lower power consumption to ~0.75 W.

CE certificate

[ce_bm2000.pdf](#)

photos

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