

*Mikro***Tik**



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## NetMetal ac<sup>2</sup>

Our toughest long-range AP, now with  
dual-band support!

SICE DISTRIBUTORE UFFICIALE: [www.sicetelecom.it](http://www.sicetelecom.it)



More power and advanced features, with the same design philosophy as its predecessors – the new NetMetal ac<sup>2</sup> AP is sturdy, reliable, easy to use and extremely capable. This is the best way to add IPsec hardware acceleration to your backhaul link! We have added an out-of-the-box 2.4/5 GHz dual-band support – no need for additional tinkering!

NetMetal ac<sup>2</sup> can handle massive loads, as it features an improved 4-core CPU and 256 MB RAM. There is a miniPCle slot for an LTE or other wireless modules and an SFP port for fiber. The NetMetal ac<sup>2</sup> can be a very adaptable addition for all kinds of setups.

The enclosure has an IP rating of IP66 with protection against dust and powerful jets of water, but it can still be opened and closed with one hand. Very handy in rough environments!

Choose NetMetal ac<sup>2</sup> – the Mars rover of long-range access points!



Two RP-SMA connectors allow adding an antenna of your choice. If necessary, you can adapt the NetMetal ac<sup>2</sup> for lower range use with such antennas as our HGO-antenna-OUT screw-on omni antenna unit. It provides 3.3 dBi gain for the 2.4 GHz band and 5.5-7.1 dBi gain for the 5 GHz band.

## Specifications

|                            |                        |
|----------------------------|------------------------|
| Product code               | RBD23UGS-5HPacD2HnD-NM |
| Architecture               | ARM 32 bit             |
| CPU                        | IPQ-4019               |
| CPU core count             | 4                      |
| CPU nominal frequency      | 716.8 MHz              |
| Dimensions                 | 143 x 247 x 48 mm      |
| License level              | 4                      |
| Operating system           | RouterOS               |
| Size of RAM                | 256 MB                 |
| Storage size               | 16 MB                  |
| Storage type               | SPI flash              |
| Tested ambient temperature | -40°C to +70°C         |

## Powering

|                                           |                     |
|-------------------------------------------|---------------------|
| Number of DC inputs                       | 2 (DC jack, PoE-IN) |
| PoE-in                                    | 802.3 af/at         |
| Poe-in input voltage                      | 24 - 57 V           |
| DC jack input voltage                     | 12 - 57 V           |
| Max power consumption                     | 28 W                |
| Max power consumption without attachments | 12 W                |

## Wireless

|                     | 2.4 GHz      | 5 GHz         |
|---------------------|--------------|---------------|
| Max data rate       | 300 Mbit/s   | 866.7 Mbit/s  |
| Number of chains    | 2            | 2             |
| Connectors          | 2*           |               |
| Connector type      | RP-SMA       | RP-SMA        |
| Supported protocols | 802.11 b/g/n | 802.11 a/n/ac |
| Interface model     | IPQ-4019     | IPQ-4019      |
| Wi-Fi generation    | Wi-Fi 4      | Wi-Fi 5       |

\* combined for both bands

## Ethernet

|                             |   |
|-----------------------------|---|
| Number of 1G Ethernet ports | 1 |
|-----------------------------|---|

## Fiber

|           |     |
|-----------|-----|
| SFP DDMI  | Yes |
| SFP ports | 1   |

## Peripherals

|                     |            |
|---------------------|------------|
| Number of USB ports | 1          |
| USB power reset     | Yes        |
| USB slot type       | USB type A |
| Max USB current (A) | 1          |
| miniPCIe slots      | 1          |
| Number of SIM slots | 1          |
| SIM slot type       | Micro SIM  |

## Other

|                         |     |
|-------------------------|-----|
| PCB temperature monitor | Yes |
| Voltage monitor         | Yes |

## Certification & Approvals

|               |               |
|---------------|---------------|
| Certification | FCC, IC, IP66 |
|---------------|---------------|

## Wireless specifications

| 2.4 GHz   | TX (dBm) | RX (dBm) |
|-----------|----------|----------|
| 1 MBit/s  | 30       | -100     |
| 11 MBit/s | 30       | -94      |
| 6 MBit/s  | 30       | -96      |
| 54 MBit/s | 27       | -80      |
| MCS0      | 30       | -96      |
| MCS7      | 26       | -75      |

| 5 GHz     | TX (dBm) | RX (dBm) |
|-----------|----------|----------|
| 6 MBit/s  | 30       | -96      |
| 54 MBit/s | 27       | -80      |
| MCS0      | 30       | -96      |
| MCS7      | 26       | -75      |
| MCS9      | 23       | -72      |

## Included parts



48 V 0.95 A  
power adapter



Metal ring (one)



K-25 screw kit



DIN mount (K-27)



Gigabit PoE  
injector