NetMetal ac²

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

More power and advanced features, with the same design philosophy as its predecessors – the new NetMetal ac² 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 ac² can handle massive loads, as it features an improved 4-core CPU and 256 MB RAM. There is a miniPCIe slot for an LTE or other wireless modules and an SFP port for fiber. The NetMetal ac² 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 ac² – the Mars rover of long-range access points!

| mANT30 | mANT 15s | | mANT 19s | mANT30 PA | HGO-antenna-OUT |

Two RP-SMA connectors allow adding an antenna of your choice. If necessary, you can adapt the NetMetal ac² 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