



Access Point BNT WLAN RB411^{ex}

Features

- Installation in ATEX Zone 1, 21 and M2
- Power supply DC 18 to 28 V or alternatively using PoE
- IEEE 802.11 a/b/g/n
- Configuration by means of web interface or configuration software

Characteristics

- Can be adjusted for operation in the 2.4 GHz or 5 GHz band
- Security features: 64/128 bit WEP, TKIP and AES CCM encryption, WPA, WPA2
- Configuration as access point or bridge possible

Description

The BARTEC BNT WLAN RB411^{ex} Access Point is designed to connect mobile wireless devices to a wired network and supports the IEEE802.11 a/b/g/n WiFi standard. The BNT WLAN RB411^{ex} can also be used as bridge to connect two or more networks to each other.

The access point itself is based on the RB411AH from Mikrotik and is fully compatible in terms of function.

The compact enclosure, its maximum performance, flexibility and approval for potentially explosive areas, combined with the possibility of operating the device in the 2.4 GHz or 5 GHz band, are just some of the advantages of the BARTEC BNT WLAN RB411^{ex}.

The enclosure of the BNT WLAN RB411^{ex} is protected to IP 64, requires no additional protective enclosure and may be directly assembled in a potentially explosive area.

Selection of intrinsically safe antennas that are approved in conjunction with the BNT WLAN RB411^{ex} permit a high degree of flexibility during installation and for different installations to be achieved indoors and outdoors.

The security features implemented are all state of the art and, combined with the enormous computing power of the device, permit up-to-date data encryption.

The BNT WLAN RB411^{ex} is configured using the web interface or configuration software.

Further technical information /web interface and the online manual can be found at:

www.routerboard.com/RB411AH and
[www.wiki.mikrotik.com/wiki/Manual: TOC](http://www.wiki.mikrotik.com/wiki/Manual:TOC)



Explosion protection

Ex protection type

- Ex I M2 Ex eb qb [ib] I
Ex II 2G Ex eb qb [ib] IIC T4
Ex II 2D Ex tb IIC T135 °C

Certification

IBExU 14 ATEX 1216

Technical data

Enclosure

Gas and dust
Aluminium (ALCuMgPb F37)
Mining
Stainless steel (V2A-X 5 CR Ni 18 - 10)

Protection class (EN 60529)

IP 64

Storage temperature

-20 °C to +60 °C

Ambient temperature

-20 °C ≤ T_a ≤ +60 °C

Dimensions (length x width x height)

250 mm x 140 mm x 56 mm

Weight

approx. 3.3 kg (aluminium enclosure)
approx. 4.5 kg (stainless steel enclosure)

Electrical data

Supply circuit

DC 18 to DC 28 V + 10 %

Rated voltage

DC supply, redundant
Alternative: Power over Ethernet (PoE)
Not in accordance with IEEE 802.3af
(no DC 48 V)
Recommended fusing: 1 AT

Data circuit (Tx; Rx)

5 V ± 10 %

Power consumption

max. 11 W

Max. input current at DC 24 V

I_max ≤ 460 mA

Output current (data circuit)

≤ 250 mW

SMA connector

P_HF < 312 mW (25 dBm)

Frequency

2.4 GHz or 5 GHz

Antenna gain

max. 8 dBi

Network specification

- 100 Mbit Ethernet copper connection
- Wireless standard IEEE 802.11 a/b/g/n
- Frequency range/data rate
IEEE 802.11 a 5 GHz up to 54 Mbit/s
IEEE 802.11 b 2.4 GHz up to 11 Mbit/s
IEEE 802.11 g 2.4 GHz up to 54 Mbit/s
IEEE 802.11 n 2.4/5 GHz up to 600 Mbit/s
- LED status displays
- Range (depending on the antennas used and the ambient influences) up to 300 m

Note

The respective wireless frequencies and the channels used depend on the relevant national regulations.

Encryption

64/128 Bit WEP, TKIP and AES CCM encryption WPA, WPA 2

Interfaces

Antenna

2 x RP-SMA

Ethernet

1 x LSA

Range Cat5

max. 100 m

Scope of delivery

- 1 x Access Point BNT WLAN RB411^{ex}
- 1 x manual

Accessories

- Antennas (set of 2)
- Dual band antenna
- Antenna
- Omnidirectional antenna
- Antenna IP 68
Extension lead
- RP-SMA with 3 or 5 m
- RP-SMA to N-connector with 5 m

Optional accessories

- Antenna mount
- PoE injector
- Configuration cable RJ 45 to open end with 1.5 m

Selection chart

Table with 2 columns: Approvals, Code no.
Rows: ATEX Zone 1/21 (aluminium enclosure) - 11; ATEX M2 (stainless steel enclosure) - 23

Complete order no. 07-7382- 24/0000

Please insert correct code. Technical data subject without notice.

Note: All variants without accessories. Antennas and other accessories must be ordered separately.