



Datasheet

Product: Nordic ID BFA 868 for Nordic ID FR22

Part Number: ACN00224

Nordic ID BFA is an advanced beam-forming overhead antenna with 28 software-controlled beams and an integrated movement and direction detection sensor. All the beams can be enabled for the highest RFID reading coverage and accuracy, or only specific beams can be enabled to define a limited area of detection and reduce unwanted readings. Nordic ID FR22 can be seamlessly connected and mounted on the back.

UHF RFID	
Frequency band	ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
Maximum gain	8 dBi
Beam width (-3 dB)	40° / 60°
Beam-forming features	28 individual beams with dual polarization
Beams tilt angles	0° ± 15° ± 30° ± 45°
Front-to-back ratio	20 dB
Connector	Nordic ID Extension Port (no standard antenna connection)
SENSORS AND INDICATORS	
Time-of-Flight sensor	45° field-of-view with 16 zones. Maximum range 4m*
LED indications	8 high visibility LED bars with green and red. 4 status LEDs
Buzzer	Up to 91dB at 4m distance
SIZE AND WEIGHT	
Dimensions	(W) 431 x (L) 431 x (H) 21 mm / (W) 17 x (L) 17 x 0.83 inch (excl. FR22 mounting)
Weight	860 gr / 30.34 oz
ENVIRONMENT	
Operating Temperature	-20°C to 55°C (-4°F to 130°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Environmental Sealing	IP20 (indoor use)

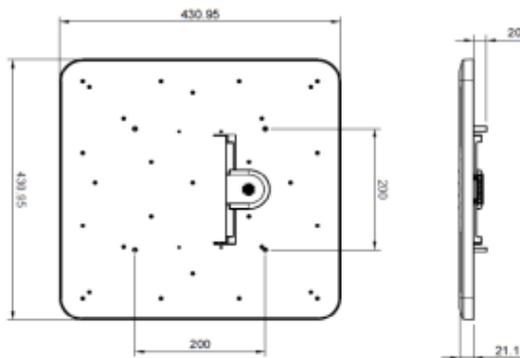


All information is subject to change without prior notice.

*Depending on environment lighting condition and reflectivity of the object in question

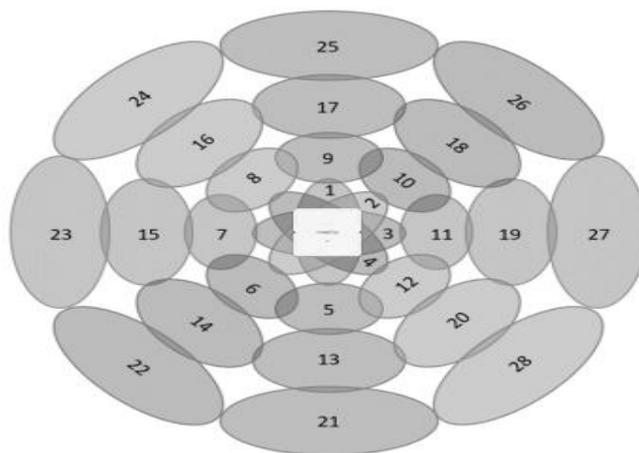
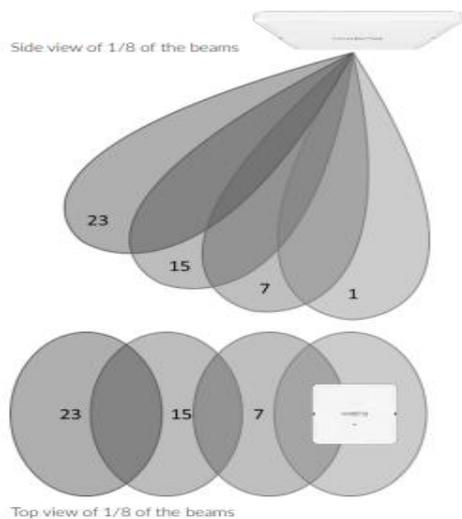
ANTENNA DIMENSIONS

(in millimeters)

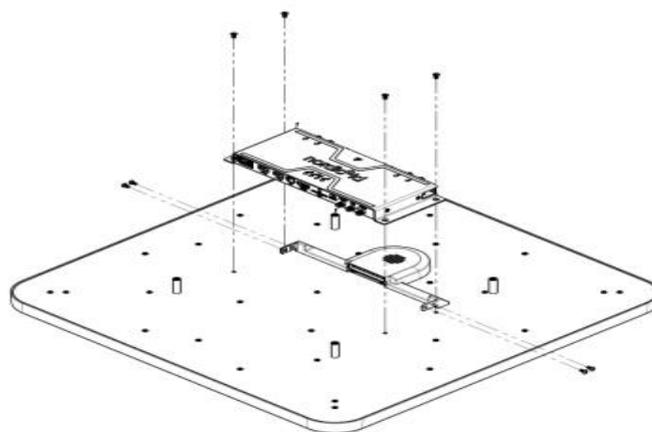
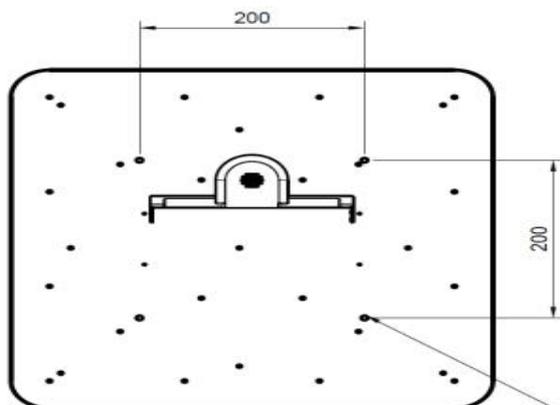




ANTENNA BEAMS RADIATION PATTERNS (beams not represented in scale)



MOUNTING (FR22 + VESA fixing)



PRODUCT HIGHLIGHTS

- 28 software controlled antenna beams to provide multiple coverage shapes for different use cases or environments.
- High read accuracy due to multiple overlapping beams.
- Reliable object direction detection and environment mapping.
- Integrated loud buzzer and high visibility LEDs to provide user indications in track & trace and access control applications.
- VESA standard mounting

SUITABLE APPLICATION AREAS

- Real-time inventory
- Track and trace
- Access control
- RFID gates
- Doors and corridors