

# **Enable data-driven decision making**

# **Brady FR22 Product Family**



The BRADY FR22 is the core device of a new family of RFID fixed systems. With this Internet of Things (IoT) Edge Device Brady has transformed conventional RFID readers into a smarter platform that is more powerful and scalable than ever. Combine this flexible device with the GA30 or BFA antenna to add even more advanced features.

















HDMI







# **BRADY FR22 IoT Edge Device**

# Fast and reliable edge computing

- High-end UHF RFID engine with very high sensitivity and controllable RFID power
- Includes Ethernet, WLAN, Bluetooth, LTE, GPIO, USB, HDMI and module extension connector
- Ability to connect external devices, sensors, triggers, lights and buzzers, via USB or GPIO port
- Full set of APIs available for controlling the device





#### **BRADY MUX16**

## **Expand read zones**

- Extending read zones of one FR22 from 4 to 16
- Connected to FR22 via the extension port, without controller or cables
- Increases overall RFID efficiency



#### **BRADY GA30 Antenna**

## **High in- & outdoor reading distance**

- Usable on all surfaces, including metal, and in harsh environments
- Achieve the longest RFID reading distance with a 10 dBic gain
- Extremely low axial ratio for optimal performance in every orientation



#### **BRADY BFA Antenna**

#### **Track item movement**

- Advanced beam-forming overhead antenna with very high read accuracy
- 28 software-controlled antenna beams allow programming of detection areas
- Integrates object movement, direction detection and sensors
- Guides users in track & trace or access control with integrated buzzer and high visibility LED

#### Warranty

- 2 year warranty (extendable)
- Free technical support during and after warranty

#### **Support**

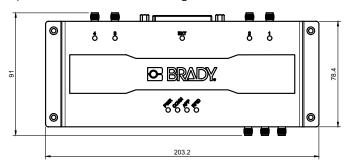
- Maintenance service and extended warranty contract
- Software customization and development support
- Technology, product and integration training
- Technology and project consultation
- Project management services





# **BRADY FR22 IoT Edge Device**

The BRADY FR22 is the core device of a new approach for RFID fixed systems with wide communication options and a modular design.



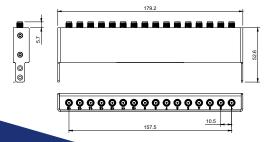


## **Product options**

Order Ref.	Description
B-FR22-RFID-RDR-EU	Brady FR22 Fixed RFID Reader EU
B-FR22-RFID-RDR-US	Brady FR22 Fixed RFID Reader US
B-FR22-RDR-LTE-EU	Brady FR22 Fixed RFID Reader LTE EU
B-FR22-RDR-BFA-US	Brady FR22 + BFA 915 kit US
B-FR22-RDR-BFA-EU	Brady FR22 + BFA 868 kit EU
B-FR22-RDLTE-BFAEU	Brady FR22 LTE + BFA 868 kit EU
B-FR22-Mux16-EU	Brady FR22 + Mux 16 ports kit EU
B-FR22-Mux16-US	Brady FR22 + Mux 16 ports kit US
B-FR22-Multiplex	Brady Mux 16 port multiplexer
B-FR22LTE-Mux16-EU	Brady FR22 LTE + Mux 16 ports kit EU
B-FR22-RDR-GA30-EU	Brady FR22 Fixed RFID Reader EU with GA30 Antenna
B-FR22-RDR-GA30-US	Brady FR22 Fixed RFID Reader US with GA30 Antenna
B-FR22LTE-GA30-EU	Brady FR22 Fixed RFID Reader LTE EU with GA30 antenna

#### **Accessories**

Order Ref.	Description
FR22-PSU-cord-EU	Power Supply FR22 EU
FR22-PSU-cord-UK	Power Supply FR22 UK
FR22-PSU-cord-US	Power Supply FR22 US
GPS-Antenna	Active GPS antenna
FR22-ANT-Cable-1m	FR22 antenna cable 1 m SMA-male - RP-SMA
FR22-ANT-Cable-3m	FR22 antenna cable 3 m SMA-male - RP-SMA
FR22-ANT-Cable-5m	FR22 antenna cable 5 m SMA-male - RP-SMA
FR22-ANT-Cable-10m	FR22 antenna cable 10 m SMA-male - RP-SMA
FR22-ANT-GA30-8cm	Antenna cable FR22 mounted on GA30 8cm
B-FR22-Multiplex	Brady Mux 16 port multiplexer
B-GA30-ANT	Brady GA30 antenna
B-BFA-ANT-868	Brady BFA antenna 868
B-BFA-ANT-915	Brady BFA antenna 915



## **Technical Specifications**

ISO Compliance Standards Frequency Fredhom Frequency Fre	iecnnicai Spec			
Frequency  RF Radiated Power  Maximum Receive  Sensitivity  Reading Speed  Ly to 1000 tags per second  External Antenna Port  A ports RP-SMA female  Connector  PLATFORM  Central Processing Unit  (CPU)  Operating System  Internal Memory Capacity  USER INTERFACE  SISM*  Device Indicators  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/R5/B8*, Brady extension port  POWER  Power Supply  Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios enabled AW in idle state.  SIZE AND WEIGHT  Dimensions  20.3.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Operating Type  4 Screws (not included)  SOFTWARE INTERFACE  SITURD AND ASH ASH Cover (Consequence)  A polication LED, Power LED, RF LED, Extension port LED  Application LED, Power LED, RF LED, Extension port LED  Application LED, Power LED, RF LED, Extension port LED  Application LED, Power LED, RF LED, Extension port LED  CONNECTIVITY  Connectivity Options  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/R5/B8*, Brady sextension port  GPS, Bellow, Gionass  Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply  Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Operating Temperature  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Operating Temperature  40°C - 85°C  Nordic ID RADEA  Firmware Updates  Nordic ID RADEA  Via Web management UI and the RESTful service  Web Management UI and the RESTful service web Management UI and the RESTful service web Management UI and the RESTful service web Management UI and Power programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API	UHF RFID IDENTIFICATION			
### ### ##############################	ISO Compliance Standards	ISO 18000-63 (EPC Class 1Gen2v2)		
Maximum Receive Sensitivity Reading Speed External Antenna Port Connector PLATFORM Central Processing Unit (CPU) Operating System Linux Internal Memory Capacity USER INTERFACE SIM* Device Indicators Application LED, Power LED, RF LED, Extension port LED Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY Connectivity Options GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port Global Navigation* GPS, BeiDou, Glonass HDMI Video 1280 x 720 and 640 x 480 resolution POWER Power Supply PoE 802.3at Max 25.5W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D) Weight (kg) Weight (kg) 0.306 kg Weight (kg) incl. MUX16 ENVIRONMENT Ingress Protection Rating Operating Temperature 40°C - 85°C Mounting Type Software Dyates Management Nordic ID RADEA Via Web management UI and the RESTful service Management Interface Web Management UI and ShI for developers IP Address Configuration IP-4 DHCP, Static IP NUR API for FFID and RESTful service to access reader configuration Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID NUR API that provides full control over the reader. MQTT support (froker or client). Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Frequency	ETSI 865.6-867.6 MHz or FCC/IC 902-928 MHz		
Sensitivity Reading Speed Up to 1000 tags per second External Antenna Port 4 ports RP-SMA female Connector Brady extension port  PLATFORM Central Processing Unit (CPU) Operating System Linux Internal Memory Capacity USER INTERFACE SIM* Mini-sim Device Indicators 4 LEDs indicating the enabled antennas, Connection LED, Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY Connectivity Options GPI0 Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/R3/B5/B7/B8*, Brady extension port Global Navigation* GPS, BeiDou, Glonass HDMI Video 1280 x 720 and 640 x 480 resolution  POWER Power Supply PoE 802.3at Operating Power Max 25.5W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D) Weight (kg) 0.306 kg Weight (kg) incl. MUX16 ENVIRONMENT Ingress Protection Rating Operating Temperature 40°C - 85°C Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE Data Management Nordic ID RADEA Firmware Updates Via Web management UI and the RESTful service Management Interface Web Management UI and SH for developers IP Address Configuration IPv4 DHCP, Static IP NUR API for FFID and RESTful service to access reader configuration Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID NUR API for FFID and RESTful service to all the provides full control over the reader. MoTT support foroker or client). Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	RF Radiated Power	+32dBm (+30dBm in FCC region)		
External Antenna Port 4 ports RP-SMA female Connector Brady extension port  PLATFORM  Central Processing Unit (CPU) Operating System Linux Internal Memory Capacity 1GB RAM, 8GB Flash USER INTERFACE SIM* Mini-sim Device Indicators 4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY Connectivity Options GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGF*, LTE-FDD B1/B3/B5/B7/B8/B2O*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port Global Navigation* GPS, Beilbou, Glonass HDMI Video 1280 x 720 and 640 x 480 resolution  POWER Power Supply PoE 802.3at Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT Dimensions 20.3.2 mm (W) x 17.55 mm (H) x 78.49 mm (D) Weight (kg) 0.306 kg ENVIRONMENT Ingress Protection Rating P20 (IP65 with GA30 back cover) Operating Temperature -20°C - 55°C Storage Temperature -40°C - 85°C Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE Data Management Protection Patic ID RADEA Firmware Updates Via Web management UI and the RESTful service Web Management Interface IP Address Configuration IPv4 DHCP, Static IP NUR API for RFID and RESTful service to access reader configuration Software Development API support foroker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Maximum Receive Sensitivity	-87dBm		
Connector Brady extension port  PLATFORM  Central Processing Unit (CPU)  Operating System  Linux  Internal Memory Capacity  USER INTERFACE  SIM*  Mini-sim  Device Indicators  4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED  CONNECTIVITY  Connectivity Options  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B3*, Brady extension port  Global Navigation*  GPS, BeiDou, Glonass  HDMI  Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply  PoE 802.3at  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) incl. MUX16  Users Wirkomment  Ingress Protection Rating  IP20 (IP65 with GA30 back cover)  Operating Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Nordic ID RADEA  Firmware Updates  Via Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Apication can be written with modern programming languages. Compatible with existing Nordic ID Rived readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Reading Speed	Up to 1000 tags per second		
PLATFORM Central Processing Unit (CPU) Operating System Linux Internal Memory Capacity USER INTERFACE SIM* Device Indicators  4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY Connectivity Options  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port Global Navigation* GPS, BeiDou, Glonass HDMI POWER Power Supply PoE 802.3at Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D) Weight (kg) 0.306 kg Weight (kg) incl. MUX16 0.566 kg ENVIRONMENT Ingress Protection Rating Operating Temperature -20°C - 55°C Storage Temperature -40°C - 85°C Mounting Type 4 Screws (not included) SOFTWARE INTERFACE Data Management Interface Web Management UI and the RESTful service Management Interface Web Management UI and SSH for developers IP Address Configuration API Support  NUR API for RFID and RESTful service to access reader configuration Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID Rixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support foroker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	External Antenna Port	4 ports RP-SMA female		
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(CPU) Operating System Linux Internal Memory Capacity USER INTERFACE SIM* Mini-sim Device Indicators 4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY Connectivity Options GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 ar/bg/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B3/B5/B7/B8/B20*, LTE-TDD B3/B5/B7/B8/B20*, LTE-TDD B3/B5/B7/B8/B20*, LTE-TDD B3/B3/B4/0/B41*, WCDMA B1/B5/B8*, Brady extension port Global Navigation* GPS, BeiDou, Glonass HDMI Video 1280 x 720 and 640 x 480 resolution POWER Power Supply PoE 802.3at Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D) Weight (kg) 0.306 kg Weight (kg) incl. MUX16 0.566 kg ENVIRONMENT Ingress Protection Rating Operating Temperature -20°C - 55°C Storage Temperature -40°C - 85°C Mounting Type 4 Screws (not included) SOFTWARE INTERFACE Data Management Nordic ID RADEA Firmware Updates Web Management UI and the RESTful service Management Interface Web Management UI and SSH for developers IP Address Configuration API Support NUR API for RFID and RESTful service to access reader configuration Software Development API Support VIRAPI for RFID and RESTful service to access reader configuration API Control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. Ready-to-use Noridi ID NUR API that provides full control over the reader. MQTT	PLATFORM	, ,		
Internal Memory Capacity USER INTERFACE SIM*  Mini-sim  Device Indicators  4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY  Connectivity Options  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  GIobal Navigation*  GPS, BeiDou, Glonass  HDMI  POWER  Power Supply  PoE 802.3at  Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  ENVIRONMENT  Ingress Protection Rating  Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Nordic ID RADEA  Firmware Updates  Wia Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID Rixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Central Processing Unit (CPU)	Quad-core A7 1.1GHz		
USER INTERFACE  SIM* Mini-sim  Device Indicators 4 LEDs indicating the enabled antennas, Connection LED, Application LED, Power LED, RF LED, Extension port LED  CONNECTIVITY  Connectivity Options GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/F8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  Global Navigation* GPS, BeiDou, Glonass  HDMI Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply PoE 802.3at  Operating Power Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) 0.306 kg  Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT  Ingress Protection Rating IP20 (IP65 with GA30 back cover)  Operating Temperature20°C - 55°C  Storage Temperature40°C - 85°C  Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration IP4 DHCP, Static IP  API Support NUR API for RFID and RESTful service to access reader configuration  Software Development API incortol over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provides full control over the reader. Roudy-To-use Nordic ID NUR API that provid	Operating System	Linux		
SIM* Mini-sim  Device Indicators 4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED  CONNECTIVITY  Connectivity Options GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSW/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  Global Navigation* GPS, BeiDou, Glonass  HDMI Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply PoE 802.3at  Operating Power Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) 0.306 kg  Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT  Ingress Protection Rating IP20 (IP65 with GA30 back cover)  Operating Temperature -20°C - 55°C  Storage Temperature -40°C - 85°C  Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration IPv4 DHCP, Static IP  NUR API for RFID and RESTful service to access reader configuration  Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID Rived readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over th	Internal Memory Capacity	1GB RAM, 8GB Flash		
Device Indicators  4 LEDs indicating the enabled antennas, Connection LED Application LED, Power LED, RF LED, Extension port LED CONNECTIVITY  Connectivity Options  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  Global Navigation*  GPS, BeiDou, Glonass  HDMI  POWER  Power Supply  PoE 802.3at  Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  Weight (kg) incl. MUX16  0.566 kg  ENVIRONMENT  Ingress Protection Rating  Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Nordic ID RADEA  Firmware Updates  Via Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  API Support  API Support  NUR API for RFID and RESTful service to access reader configuration  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	USER INTERFACE			
Application LED, Power LED, RF LED, Extension port LED  CONNECTIVITY  Connectivity Options  GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  Global Navigation*  GPS, BeiDou, Glonass  HDMI  Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply  PoE 802.3at  Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  Weight (kg) incl. MUX16  ENVIRONMENT  Ingress Protection Rating  Operating Temperature  -20°C - 55°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Nordic ID RADEA  Firmware Updates  Management Interface  Web Management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  API Support  NUR API for RFID and RESTful service to access reader configuration  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	SIM*	Mini-sim		
GPIO Industrial mini IO port, USB-C, USB Host, Ethernet, Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  Global Navigation* GPS, BeiDou, Glonass  HDMI Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply PoE 802.3at  Operating Power Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) 0.306 kg  Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT  Ingress Protection Rating IP20 (IP65 with GA30 back cover)  Operating Temperature -20°C - 55°C  Storage Temperature -40°C - 85°C  Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration IPv4 DHCP, Static IP  API Support NUR API for RFID and RESTful service to access reader configuration  Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Device Indicators	4 LEDs indicating the enabled antennas, Connection LED, Application LED, Power LED, RF LED, Extension port LED		
Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*, WCDMA B1/B5/B8*, Brady extension port  Global Navigation* GPS, BeiDou, Glonass  HDMI Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply PoE 802.3at  Operating Power Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) 0.306 kg  Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT  Ingress Protection Rating IP20 (IP65 with GA30 back cover)  Operating Temperature -20°C - 55°C  Storage Temperature -40°C - 85°C  Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration IPv4 DHCP, Static IP  API Support NUR API for RFID and RESTful service to access reader configuration  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	CONNECTIVITY			
HDMI Video 1280 x 720 and 640 x 480 resolution  POWER  Power Supply PoE 802.3at  Operating Power Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions 203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) 0.306 kg  Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT  Ingress Protection Rating IP20 (IP65 with GA30 back cover)  Operating Temperature -20°C - 55°C  Storage Temperature 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration IPv4 DHCP, Static IP  API Support NUR API for RFID and RESTful service to access reader configuration  Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Connectivity Options	Bluetooth, Wireless 802.11 a/b/g/n, GSM/EDGE*, LTE-FDD B1/B3/B5/B7/B8/B20*, LTE-TDD B38/B40/B41*,		
Power Supply PoE 802.3at  Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg) 0.306 kg  Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT  Ingress Protection Rating Operating Temperature -20°C - 55°C  Storage Temperature -40°C - 85°C  Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Firmware Updates Via Web management UI and the RESTful service Management Interface Web Management UI and SSH for developers IP Address Configuration IPv4 DHCP, Static IP  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Global Navigation*	GPS, BeiDou, Glonass		
Power Supply Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  Weight (kg) incl. MUX16  ENVIRONMENT  Ingress Protection Rating Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates  Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	HDMI	Video 1280 x 720 and 640 x 480 resolution		
Operating Power  Max 25.5W with max RFID tx level and all radios enabled Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  Weight (kg) incl. MUX16  ENVIRONMENT  Ingress Protection Rating Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Nordic ID RADEA  Firmware Updates  Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	POWER			
Max 18W with max RFID tx level and all radios disabled. 4W in idle state.  SIZE AND WEIGHT  Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  Weight (kg) incl. MUX16  ENVIRONMENT  Ingress Protection Rating Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management Firmware Updates  Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Power Supply	PoE 802.3at		
Dimensions  203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)  Weight (kg)  0.306 kg  0.566 kg  ENVIRONMENT  Ingress Protection Rating Operating Temperature -20°C - 55°C Storage Temperature -40°C - 85°C Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Firmware Updates Via Web management UI and the RESTful service Management Interface Web Management UI and SSH for developers IP Address Configuration API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Operating Power			
Weight (kg) incl. MUX16 0.306 kg Weight (kg) incl. MUX16 0.566 kg  ENVIRONMENT Ingress Protection Rating IP20 (IP65 with GA30 back cover) Operating Temperature -20°C - 55°C Storage Temperature -40°C - 85°C Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE Data Management Nordic ID RADEA Firmware Updates Via Web management UI and the RESTful service Management Interface Web Management UI and SSH for developers IP Address Configuration IPv4 DHCP, Static IP API Support NUR API for RFID and RESTful service to access reader configuration Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	SIZE AND WEIGHT			
Weight (kg)	Dimensions	203.2 mm (W) x 17.55 mm (H) x 78.49 mm (D)		
ENVIRONMENT  Ingress Protection Rating  Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Firmware Updates  Nordic ID RADEA  Firmware Updates  Web Management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Weight (kg)			
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Operating Temperature  -20°C - 55°C  Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Nordic ID RADEA  Firmware Updates  Was Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  IPv4 DHCP, Static IP  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	ENVIRONMENT			
Storage Temperature  -40°C - 85°C  Mounting Type  4 Screws (not included)  SOFTWARE INTERFACE  Data Management  Firmware Updates  Via Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordi ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Ingress Protection Rating	IP20 (IP65 with GA30 back cover)		
Mounting Type 4 Screws (not included)  SOFTWARE INTERFACE  Data Management Nordic ID RADEA  Firmware Updates Via Web management UI and the RESTful service  Management Interface Web Management UI and SSH for developers  IP Address Configuration IPv4 DHCP, Static IP  API Support NUR API for RFID and RESTful service to access reader configuration  Software Development Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordic ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Operating Temperature	-20°C - 55°C		
Data Management  Nordic ID RADEA  Firmware Updates  Via Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  IPv4 DHCP, Static IP  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordi ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Storage Temperature	-40°C - 85°C		
Data Management  Nordic ID RADEA  Via Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordi ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Mounting Type	4 Screws (not included)		
Data Management  Nordic ID RADEA  Via Web management UI and the RESTful service  Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordi ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	SOFTWARE INTERFACE			
Management Interface  Web Management UI and SSH for developers  IP Address Configuration  API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Nordi ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Data Management	Nordic ID RADEA		
IP Address Configuration  IPv4 DHCP, Static IP  NUR API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Norid ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Firmware Updates	Via Web management UI and the RESTful service		
API Support  NUR API for RFID and RESTful service to access reader configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Norid ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	Management Interface	Web Management UI and SSH for developers		
configuration  Software Development  Application can be written with modern programming languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Norid ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	IP Address Configuration	IPv4 DHCP, Static IP		
languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Norid ID NUR API that provides full control over the reader. MQTT support (broker or client).  Security  TLS v1.3, WLAN profiles: WPA2-Personel and WPA2-	API Support			
	Software Development	languages. Compatible with existing Nordic ID fixed readers. Ready-to-use Nordic ID NUR API that provides full control over the reader. Ready-to-use Norid ID NUR API that provides full control over the reader. MQTT		
	Security			

 $(\mbox{\ensuremath{^{'}}})$  The feature is available in the LTE version of FR22 only





# **BRADY GA30 Antenna - General antenna for rugged environments**

Brady GA30 is a general-purpose antenna with a very high gain and is ideal for harsh environments where IP rating is needed.

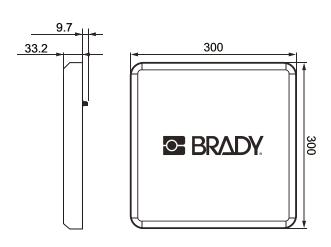
#### **Technical Specifications**

UHF RFID	
Frequency	Wide band 865 MHz - 928 MHz
Antenna Features	10 dBic RHCP Polarisation
Beam Width	50° / 50°
Input Impedance	50 Ω
VSWR	< 1.5:1
Power Requirements	Max 2W input power
Front-to-back Ratio	20 dB
Axial Ratio	< 0.5 dB
External Antenna Port	SMA Female connector
SIZE AND WEIGHT	
Dimensions	300.00 mm (W) x 300.00 mm (H) x 33.20 mm (D)
Weight (kg)	0.86 kg
Weight with FR22 (kg)	1.166 kg
ENVIRONMENT	
Operating Temperature	-20°C - 55°C
Storage Temperature	-40°C - 85°C
Ingress Protection Rating	IP65

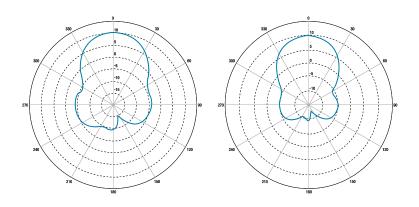


Order Ref.	Description
B-GA30-ANT	Brady GA30 antenna
B-FR22-RDR-GA30-EU	Brady FR22 Fixed RFID Reader EU with GA30 Antenna
B-FR22-RDR-GA30-US	Brady FR22 Fixed RFID Reader US with GA30 Antenna
B-FR22LTE-GA30-EU	Brady FR22 Fixed RFID Reader LTE EU with GA30 antenna

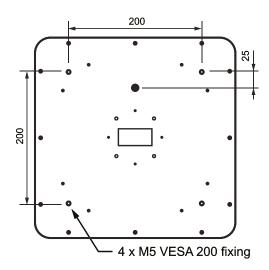




## **Antenna radiation pattern**



## **Mounting (VESA fixing)**



Note about VESA fixing points: the maximum thread depth is 7 mm and the maximum allowed torque is 8 Nm.



## **BRADY BFA Antenna - beam forming antenna that can detect movement**

BRADY BFA is an advanced beam-forming overhead antenna with 28 software-controlled beams and an integrated movement and direction detection sensor.

#### **Technical Specifications**

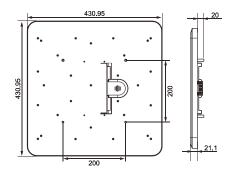
UHF RFID	
Frequency	ETSI 865.6-867.6 MHz or FCC/IC 902-928 MHz
Antenna Features	Max gain 8dBi
Beam Width	40° / 60°
Beam Forming Features	28 individual beams with dual polarisation
Beam Tilt Angles	0°, ±15°, ±30°, ±45°
Front-to-back Ratio	20 dB
Connector	Brady extension port
SENSORS AND INDICATORS	
Sensor	Time of flight sensor
Device Indicators	Buzzer for sound indications, 8 high visibility LED bars
SIZE AND WEIGHT	
Dimensions	430.95 mm (W) x 430.95 mm (H) x 21.10 mm (D)
Weight (kg)	0.86 kg
Weight with FR22 (kg)	1.166 kg
ENVIRONMENT	
Operating Temperature	-20°C - 55°C
Storage Temperature	-40°C - 85°C
Ingress Protection Rating	IP20



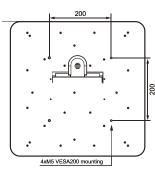
## **Product options**

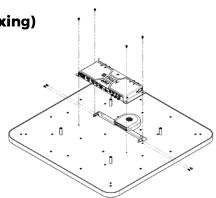
Order Ref.	Description
B-BFA-ANT-868	Brady BFA antenna 868
B-BFA-ANT-915	Brady BFA antenna 915
B-FR22-RDR-BFA-US	Brady FR22 + BFA 915 kit US
B-FR22-RDR-BFA-EU	Brady FR22 + BFA 868 kit EU
B-FR22-RDLTE-BFAEU	Brady FR22 LTE + BFA 868 kit EU

## **Antenna dimensions (mm)**

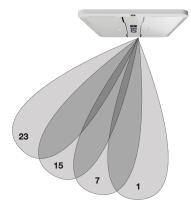


# **Mounting (FR22 + VESA fixing)**

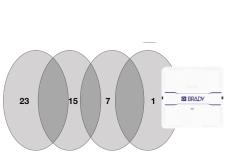




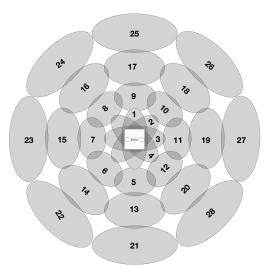
#### Antenna beams radiation patterns (beams not represented in scale)



Side view of 1/8 of the beams



Top view of 1/8 of the beams



Top view position of the 28 beams (represented coverage is not real, as overlaps among beams is much higher than drawn here)