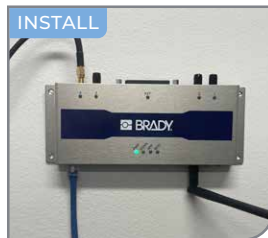




UNPARALLELED FLEXIBILITY AND CONNECTIVITY

BRADY FR22 RFID Fixed Reader

The BRADY FR22 is the core device of a new approach for RFID fixed systems with wide communication options and a modular design. The FR22 is a critical building block for various track & trace and intelligent manufacturing solutions. It enables different use cases for different segments depending on which modules are attached to it.



AUTOMATED RFID DATA COLLECTION FOR CONTINUOUS MONITORING

- ▶ Fast and reliable edge computing with support for custom embedded applications
- ▶ Wide communication options that enable flexibility in system designing and no need for external connectivity hardware
- ▶ Cutting edge RFID engine by Nordic ID Technology
- ▶ Develop embedded web apps with user interface. Eliminating the need for external PC/tablet
- ▶ Brady extension connector for plug and play accessories like Brady MUX16
- ▶ Connect external devices, sensors, triggers, lights and buzzers
- ▶ Full set of APIs available for controlling the reader
- ▶ API is backward compatible with other Brady devices

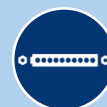
THE LATEST IN MODULAR FIXED READERS



**HIGH PERFORMANCE
RFID READING**

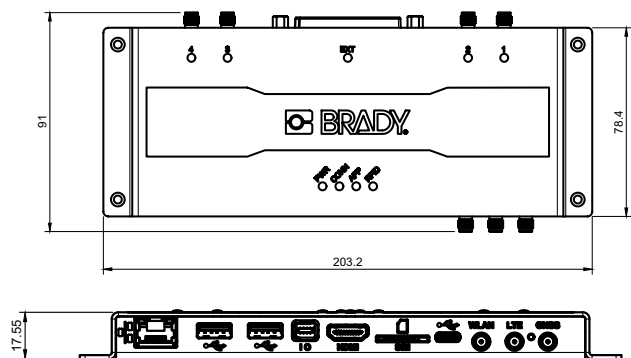


**MULTIPLE
CONNECTIVITY
OPTIONS**



**EXTENSION
PORT FOR PLUG
AND PLAY
ACCESSORIES**

BRADY FR22 RFID Fixed Reader



UHF RFID IDENTIFICATION	
ISO Compliance Standards	ISO 18000-63 (EPC Class 1 Gen2v2)
Frequency	ETSI 865.6-867.6 MHz or FCC/IC 902-928 MHz
RF Radiated Power	+32dBm (+30dBm in FCC region)
Maximum Receive Sensitivity	-87dBm
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)	Quad-core A7 1.1GHz
Operating System	Linux
Internal Memory Capacity	1 GB RAM, 8 GB 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, Wireless 802.11 b/g, 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*
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
ENVIRONMENT	
Ingress Protection Rating	IP20
Operating Temperature	-20°C - 55°C
Storage Temperature	-40°C - 85°C
Mounting Type	4 Screws (not included)

SOFTWARE INTERFACE	
Data Management	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 Brady & Nordic ID fixed readers. Ready-to-use Nordic ID Technology NUR API that provides full control over the reader
Security	TLS v1.3

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 RFID Fixed Reader

Product options

Article No.	Order Reference	Description
319479	B-FR22-RDR-BFA-AU	Brady FR22 + BFA 868 kit - AU
311945	B-FR22-RDR-BFA-EU	Brady FR22 + BFA 868 kit - EU
311944	B-FR22-RDR-BFA-US	Brady FR22 + BFA 915 kit - US
319480	B-FR22-MUX16-AU	Brady FR22 + Mux 16 ports kit AU
311947	B-FR22-Mux16-EU	Brady FR22 + Mux 16 ports kit EU
311948	B-FR22-Mux16-US	Brady FR22 + Mux 16 ports kit US
319478	B-FR22-RFID-RDR-AU	Brady FR22 Fixed RFID Reader AU
319481	B-FR22-RDR-GA30-AU	Brady FR22 Fixed RFID Reader AU with GA30 Antenna
316359	B-FR22-RFID-RDR-CN	Brady FR22 Fixed RFID Reader CN
311937	B-FR22-RFID-RDR-EU	Brady FR22 Fixed RFID Reader EU
313665	B-FR22-RDR-GA30-EU	Brady FR22 Fixed RFID Reader EU with GA30 Antenna
319473	B-FR22-RFID-RDR-IL	Brady FR22 Fixed RFID Reader IL
316353	B-FR22-RFID-RDR-IN	Brady FR22 Fixed RFID Reader IN
316354	B-FR22-RFID-RDR-JP	Brady FR22 Fixed RFID Reader JP
316364	B-FR22-RFID-RDR-KR	Brady FR22 Fixed RFID Reader KR
311939	B-FR22-RDR-LTE-EU	Brady FR22 Fixed RFID Reader LTE EU
313667	B-FR22LTE-GA30-EU	Brady FR22 Fixed RFID Reader LTE EU with GA30 antenna
314601	B-FR22-RFID-RDR-SA	Brady FR22 Fixed RFID Reader SA
311938	B-FR22-RFID-RDR-US	Brady FR22 Fixed RFID Reader US
313666	B-FR22-RDR-GA30-US	Brady FR22 Fixed RFID Reader US with GA30 Antenna
311946	B-FR22-RDLTE-BFAEU	Brady FR22 LTE + BFA 868 kit - EU
311949	B-FR22LTE-Mux16-EU	Brady FR22 LTE + Mux 16 ports kit EU
323419	N-FR22-RDR-BFA-EU	Nordic ID FR22 + BFA 868 kit - EU
323418	N-FR22-RDR-BFA-US	Nordic ID FR22 + BFA 868 kit - US
323421	N-FR22-Mux16-EU	Nordic ID FR22 + Mux 16 ports kit EU
311958	FR22-MUX16-US	Nordic ID FR22 + Mux 16 ports kit US
323417	N-FR22-EDGE-BLE-EU	Nordic ID FR22 Fixed RFID Reader EU
323422	N-FR22-RDR-GA30-EU	Nordic ID FR22 Fixed RFID Reader EU with GA30 Antenna
323423	N-FR22LTE-GA30-EU	Nordic ID FR22 Fixed RFID Reader LTE EU with GA30 antenna
323420	N-FR22-RDLTE-BFAEU	Nordic ID FR22 LTE + BFA 868 kit - EU

Accessories

Article No.	Order Reference	Description
311923	GPS-Antenna	Active GPS antenna
311931	FR22-ANT-GA30-8cm	Antenna cable FR22 mounted on GA30 8cm
311942	B-BFA-ANT-868	Brady BFA antenna 868
311943	B-BFA-ANT-915	Brady BFA antenna 915
311941	B-GA30-ANT	Brady GA30 antenna
313687	B-GA30-Backcvt-kit	Brady GA30 back cover kit
320034	B-IO-EXT-BOX	Brady IO Connection box
311940	B-FR22-Multiplex	Brady Mux 16 port multiplexer
311930	FR22-ANT-Cable-10m	FR22 antenna cable 10 m SMA-male - RP-SMA
311927	FR22-ANT-Cable-1m	FR22 antenna cable 1 m SMA-male - RP-SMA
311928	FR22-ANT-Cable-3m	FR22 antenna cable 3 m SMA-male - RP-SMA
311929	FR22-ANT-Cable-5m	FR22 antenna cable 5 m SMA-male - RP-SMA
322564	FR22-ANT-Cable-7m	FR22 antenna cable 7 m SMA-male - RP-SMA
323424	N-FR22-Multiplex	Nordic ID Mux 16 port multiplexer
323425	N-BFA-ANT-868	Nordic ID Technology BFA antenna 868
323426	N-BFA-ANT-915	Nordic ID Technology BFA antenna 915
319485	FR22-PSU-CORD-AU	Power Supply FR22 AU
311920	FR22-PSU-cord-EU	Power Supply FR22 EU
311921	FR22-PSU-cord-UK	Power Supply FR22 UK
311922	FR22-PSU-cord-US	Power Supply FR22 US
322826	RP-TNC-SMA-ANT-10M	RP-TNC-SMA Antenna 10m cable
322815	RP-TNC-SMA-ANT-1M	RP-TNC-SMA Antenna 1m cable
322816	RP-TNC-SMA-ANT-3M	RP-TNC-SMA Antenna 3m cable
322825	RP-TNC-SMA-ANT-5M	RP-TNC-SMA Antenna 5m cable

FR22 with MUX16 Multiplexer



BRADY FR22 with GA30 antenna



BFA Antenna

