

BRADY FR22 RFID Fixed Reader

The new era of modular fixed readers

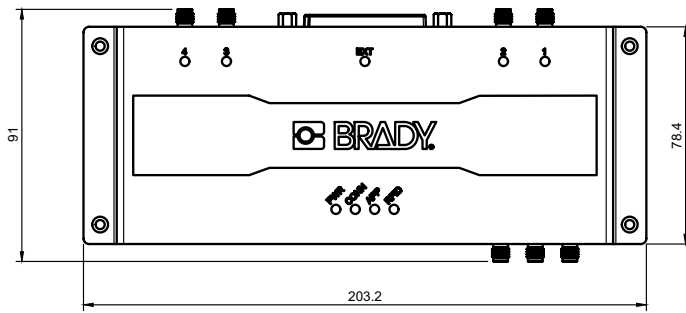


The BRADY FR22 is the core device of a new approach for RFID fixed systems with wide communication options and a modular design. The FR22 is a critical building block for various track & trace and intelligent manufacturing solutions. It enables different use cases for different segments depending on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

Using the same API for backward compatibility with all the other Nordic ID devices and with an improved connectivity, the BRADY FR22 is the evolution towards a smarter platform, more powerful, scalable, flexible, and manageable than ever.

Product highlights

- 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
- New UHF RFID engine based on the very latest 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 API's available for controlling the reader



UHF RFID IDENTIFICATION	
ISO Compliance Standards	ISO 18000-63 (EPC Class 1Gen2v2)
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	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, 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 91.00 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	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

Support

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

Warranty

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

Software development environment

- Fast and reliable edge computing with support for custom embedded applications

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-FR22LTE-Mux16-EU	Brady FR22 LTE + Mux 16 ports kit EU

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