BRADY FR22 LITE RFID Fixed Reader
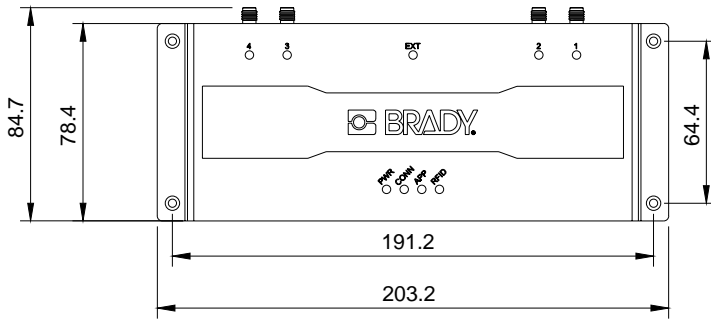
Affordable edge computing capabilities

The FR22 Lite is the entry variant of the powerful FR22 reader, but that does not mean its RFID performance is less powerful. Indeed, the FR22 Lite features the same RFID engine as the FR22 and provides a very high asset track and trace performance, even in challenging environments.

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

Product highlights

- Fast and reliable edge computing with support for custom embedded applications
- New UHF RFID engine based on the very latest technology
- Develop embedded web apps with user interface. Eliminating the need for external PC/tablet
- 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
PLATFORM	
Central Processing Unit (CPU)	Quad-core A7 1.1GHz
Operating System	Linux
Internal Memory Capacity	1GB RAM, 8GB Flash
USER INTERFACE	
Device Indicators	4 LEDs indicating the enabled antennas, Connection LED, Application LED, Power LED, RF LED
CONNECTIVITY	
Connectivity Options	GPIO Industrial mini IO port, USB-C, USB Host, Ethernet
POWER	
Power Supply	PoE 802.3at
Power Requirements	Max 25.5 W. 4W idle

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	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
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

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-FR22LITE-RDR-EU	FR22 Lite Reader

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
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-GA30-ANT	Brady GA30 antenna
B-GA30-Backcvr-kit	Brady GA30 back cover kit