

MAY 17 - 19, 2022 MANDALAY BAY | **LAS VEGAS, NV**



The Evolution of RFID Devices

Brady IDentification Solutions



O-BRADY

nordic

Wes Columbia Senior Global Product Manager Brady Intelligent Manufacturing

Paul Murdock Strategic Export Channels – RFID Solutions





BRADY FR22 IOT EDGE GATEWAY





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BRADY FR22 IoT EDGE GATEWAY



The FR22 is the core device of a new approach for RFID fixed reader systems. Offering a wide assortment of options and a modular design the FR22 is a vital building block for various track & trace and intelligent manufacturing solutions.

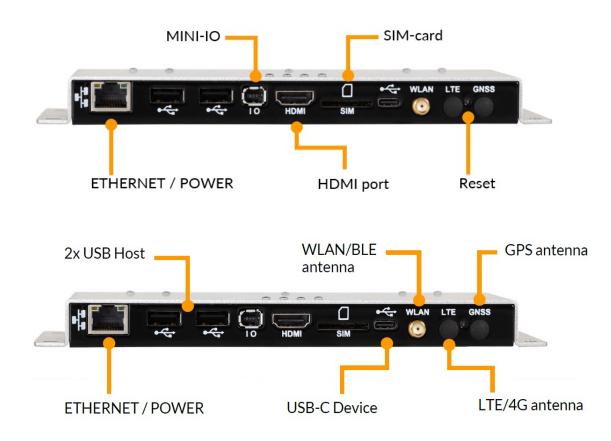
You can enable a range of use cases for different segments depending on which modules are attached.

The FR22 is a truly game-changing device in RFID and IoT industry. With improved connectivity and scalability, FR22 is the evolution towards a smarter platform, more powerful, scalable, flexible, and manageable than ever.

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BRADY FR22 IoT EDGE GATEWAY



• HDMI output →

Develop embedded apps with UI. Eliminating the need for external PC/tablet

• Nordic ID extension connector ightarrow

Plug and play accessories like 16 port RF multiplexer and BFA

• 4 GPIO and 2 host USB \rightarrow

Connect external devices, sensors, triggers, lights and buzzers

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Full set of APIs available for controlling and configuring the reader →

RESTful, NurAPI, optional LLRP



FR22 16 PORT <u>MUltipleXer</u>



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16 RF output ports →

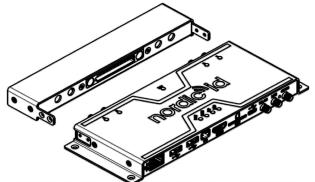
Extending read zones of one reader

• Low loss RF PCB laminate used \rightarrow

Stronger, better overall efficiency

• Easily upgrade the 4 port \rightarrow

the MUX slides on and screws in



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FR22 BEAM FORMING ANTENNA



Software controllable beamforming antenna providing 28 beams

High read accuracy due to multiple overlapping beams

Integrated Time-of-Flight sensor

Reliable object direction detection and environment mapping

8dBm gain

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Increases the FR22 sensitivity to -89dBm



FR22 GA30

Nordic ID GA30

- Reads tags in any position or angle (low axial ratio)
- Long reading distance (High gain)
- Suitable for outdoors and harsh manufacturing facilities (IP 65 rating)*

<image>

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*Back cover needed



IOT EDGE ARCHITECTURE

FR22 as an RFID reader

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FR22 as an IoT Edge Gateway

