

NORDIC ID EXA51

Combine outstanding UHF RFID performance with your smart device for a seamless RFID experience. With the Nordic ID EXA51 retail and logistics markets receive a powerful UHF RFID reader that is compatible with the most common operating systems.

The Nordic ID EXA51 offers powerful reading performance and long battery life, these make it the ideal UHF RFID reader for heavy-duty inventory tasks.



PRODUCT VARIANTS

WIRELESS CHARGING



QUAD LOCK



RFID IDENTIFICATION

Supported standard	ISO 18000-63 (EPC Class 1 Gen2v2)
Frequency	ETSI 865.6-867.6 MHz or FCC/IC 902-928 MHz
RF radiated power	ERP 2W/EIRP 3.3W
	Software controlled antenna modes: linear (horizontal & vertical), circular and proximity
	Nominal reading distance: Linear polarization mode 7 m/22 ft, circular polarization mode 4 m/13 ft, proximity mode, read range down to 1 cm/0.4 inch
	Typical reading speed: 200 tags per second

BARCODE IDENTIFICATION

2D imager	All major 1D barcodes and 2D codes High visibility LED aimer 2 character pre and post fixes, padding, replacement Enhanced aiming mode (automatic switching between scan line / aiming dot) Configurable scan alert sounds
-----------	--

PLATFORM

RFID	Nordic ID NUR-10W reader module
Operating system	Embedded IoT platform

USER INTERFACE

Keys	Power and Unpair a Bluetooth device Trigger button
User feedback	3 LEDs and buzzer

COMMUNICATION

Wireless PAN	Bluetooth 4.2 (Low Energy) Class 2 Supported profiles: GATT, HID
--------------	---

PRODUCT HIGHLIGHTS

- High performance UHF RFID capability for smart devices
- Effortlessly connect any existing smart device to the RFID reader via Bluetooth Low Energy
- Ergonomic design due to lightweight and balanced weight distribution
- Effortless and secure locking mechanism for smart devices
- Operates a full working day on a single charge

SUPPORTED OPERATING SYSTEMS

- Android 5.0 or newer
- iOS 8 or newer
- Windows 10 support coming soon

Note: Bluetooth Low Energy needs to be supported by host device

SOFTWARE DEVELOPMENT ENVIRONMENTS

- Android Studio
- Apple Xcode
- Source code available at: <https://github.com/NordicID>

ENVIRONMENT

- Free support during and after 2 year warranty time
- Maintenance service and extended maintenance contract
- Software customization and development support
- Technology, product and integration training
- Technology and project consultation
- Project management services

POWER	
Battery	Rechargeable, removable Lithium-Ion battery pack 7000 mAh, 3.7V Up to 24 h in intensive use
Charging of EXA51	Charging over cradle (0 to 100 %) 5 h Charging over micro USB connector (0 to 100 %) 5–10 h
Charging of host device	Qi wireless charging supported (not available in Quad Lock version) Maximum charging power 5 W Charging from cradle via USB cable Adaptive charging power (4–7W) based on charge level of EXA51 battery
External power supply	AC adapter for desktop charger: input 100–240 VAC, 1 A, 50-60 Hz / output 5.2 VDC, 3 A, 15 W / Power adapter for EU, UK or US
SIZE AND WEIGHT	
Dimensions	(H) 196 x (W) 83/91 x (D) 21/135 mm (H) 7.7 x (W) 3.3/3.6 x (D) 0.8/5.3 inch
Weight	320 g / 11.3 oz
DROP AND SHOCK	
Drop and impact resistance	1.5 m / 4.9 ft
ESD	Contacts +/- 4kVdc Air discharge +/- 8kVdc
ENVIRONMENT	
Temperature	Operating -20 to +55 °C -4 to +131°F Storage -20 to +60 °C -4 to +140 °F Charging 0 to +45 °C +32 to +113 °F
Relative humidity	10 % to 95 % non-condensing
Environmental sealing	IP54 – dust and water splash protected
Fastening options	Magnets, screws or Quad Lock (not available in wireless charging version)
Inbox content	Nordic ID EXA51, counter parts of magnets, screws and Safety & Regulations guide

All information is subject to change without prior notice.

