



HIGH-PERFORMANCE RFID: CAPTURE. COMPUTE. CONNECT.

HH86

Handheld RFID Reader

The scan is just the beginning

High-performance data capture, with the capabilities of a computer



Modernize workflows — MES? ERP? WMS? YES!

Feed data directly into your existing system(s)

Industrial-grade performance, designed for all-day operation

- ▶ All-in-one solution: combines barcode scanning (Code 1D and 2D), NFC, HF and UHF RFID reading in a single device
- ▶ Circular antenna polarization ensures fast and reliable reading performance up to 32', irrespective of tag orientation (up to 1,200 tags per second)
- ▶ Visual (LED), audible and tactile feedback for enhanced user experience
- ▶ High-capacity, hot-swappable battery provides up to 18 hours of continuous use and allows quick replacement in seconds
- ▶ Rugged design: IP65-rated enclosure resists dust and moisture, with 5' drop protection
- ▶ Fitted with rubber bumpers and pistol grip for easy handling
- ▶ Optimized connectivity with Wi-Fi
- ▶ Android 13 OS with NUR API for easy software development
- ▶ Supports all common RFID use cases including inventory management and asset tracking

NOT JUST
A READER.
**A MOBILE
COMPUTER.**



**SEAMLESSLY
INTEGRATE DATA**



**RUN ANDROID
APPS NATIVELY**



**WORK SMARTER,
FASTER & MORE
ACCURATELY**



**QUICKLY LOCATE
YOUR ITEMS**

Reader Specifications

UHF RFID Identification	
ISO Compliance Standards	ISO 18000-63 (EPC Class 1Gen2v2)
Frequency	FCC/IC 902-928 MHz
RF Radiated Power	EIRP 1.3W (31dBm) Adjustable in 1dB steps
Antenna Features	Circular polarisation with 4dBic gain
Maximum Receive Sensitivity	-80dBm
Reading Speed	Up to 1,200 tags per second
Barcode Identification and Imaging	
Bar Code Type	Codabar, Codabar (NW-7), Code 11, Code 39, Code 93, Code 128, GS1-128, GS1 DataBar, Industrial 2 of 5, Interleaved 2 of 5, S-code, China Post, ISBN-ISSN-ISMN, MSI, Plessey, Telepen, POSTNET, EAN-13, EAN-13 Extension 2, EAN-13 Extension 5, EAN-8, EAN-8 Extension 2, EAN-8 Extension 5, EAN/UPC, EAN, UPC Extension 2, EAN/UPC Extension 5, JAN-13, JAN-13 Extension 2, JAN-13 Extension 5, JAN-8, UPC-A, UPC-D 6 digit, UPC-E, UPC-E 11 digit, UPC-E0, UPC-E1 6 digit
Camera	16 Mpx rear facing camera with auto focus and LED flash
Platform	
Scanner Model	Nordic ID technology by Brady NUR3-1W engine
Central Processing Unit (CPU)	Quad Kryo 260 Gold 2.0GHz and Quad Kryo 260 Silver 1.8GHz
Operating System	Android 13 Upgradable to Android 14
Sensor	Accelerometer Ambient light sensor Gyroscope Pedometer Proximity sensor
User Interface	
Display	Gorilla Glass 3 HD colour capacitive touchscreen
User Interface Type	Touchscreen Buttons
Audio	Earpiece Integrated handsfree speaker Microphone
Device	RGB LED Vibration for haptic feedback
Connectivity	
Connectivity Options	Wireless 802.11 a/b/g/n/ac Bluetooth® 5.1 USB 2.0
RFID Capabilities	NFC/HF and UHF
Power	
Battery Type	Rechargeable lithium-ion battery
Battery mAh Rating	10050 mAh
Back-up Battery	Keeps time for 200 days
Power Supply Voltage	100 - 240 V @ 50 - 60 Hz
Size and Weight	
Dimensions	8.425 in H x 3.425 in W x 5.315 in D (214 mm H x 87 mm W x 135 mm D)
Weight (lbs)	1.415
Environment	
Operating Temperature	-4°F-131°F (-20°C-55°C)
Operating Humidity	10%-95% (non-condensing)
Ingress Protection Rating	IP65
Drop and Shock	
Drop Test	Resistant to 5 feet drops

Product Options

Product #	Catalog #	Description
323490	B-HH86-UHF-US	HH86 Handheld UHF RFID Reader

Accessories

Product #	Catalog #	Description
323493	B-HH86-Batt-Pistol	HH86 Battery Pistol Grip Cover
323494	B-HH86-adapter-USB	Wall adapter

