



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.



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



**SEAMLESSLY  
INTEGRATE DATA**



**RUN ANDROID  
APPS NATIVELY**



**WORK SMARTER,  
FASTER & MORE  
ACCURATELY**



**QUICKLY LOCATE  
YOUR ITEMS**

## Modernise 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 label/tag reading in a single device
- ▶ Circular antenna polarisation ensures fast and reliable reading performance up to 10 metres, irrespective of tag orientation (up to 1200 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 1.6-metre drop protection
- ▶ Fitted with rubber bumpers and pistol grip for easy handling
- ▶ Optimised connectivity options including to Wi-Fi, 4G, 3G
- ▶ Android 13 OS with NUR API for easy software development
- ▶ Supports all common RFID use cases including Inventory Management and Asset Tracking

# HH86 HANDHELD RFID READER

## Reader specifications

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	Max. ERP 0.8W (29dBm) / EIRP 1.3W (31dBm) Adjustable in 1dB steps
Antenna Features	Circular polarisation with 4dBic gain
Maximum Receive Sensitivity	-80dBm
Reading Speed	Up to 1200 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 Touch Screen
User Interface Type	Touchscreen Buttons
Audio	Earpiece Integrated handsfree speaker Microphone
Device Indicators	RGB LED Vibration for haptic feedback
Connectivity	
Connectivity Options	Wireless 802.11 a/b/g/n/ac Bluetooth® 5.1 USB 2.0 LTE UMTS GSM/EDGE GNSS
RFID Capabilities	NFC/HF and UHF
Power	
Battery Type	Rechargeable Lithium-ion Battery
Battery mAh Rating	10050 mAh
Back-up Battery	For real-time clock: keeps time for 200 days
Power Supply Voltage	100 - 240 V @ 50 - 60 Hz

Size and weight	
Dimensions	87 mm (W) x 214 mm (H) x 135 mm (D)
Weight (kg)	0.642
Environment	
Operating Temperature	-20°C - 55°C
Operating Humidity	10%-95% (non-condensing)
Ingress Protection Rating	IP65
Drop and shock	
Drop Test	Resistant to 1.6 metre drops

## Product options

Article No.	Order Ref.	Description
323488	B-HH86-UHF-EU	Brady HH86 Reader UHF 868 2Dimg EU
323489	B-HH86-UHF-LTE-EU	Brady HH86 Reader UHF 868 2Dimg LTE EU
323490	B-HH86-UHF-US	Brady HH86 Reader UHF 915 2Dimg US
323491	B-HH86-UHF-EU2	Brady HH86 Reader UHF 915 2Dimg EU2
323492	B-HH86-UHF-LTE-EU2	Brady HH86 Reader UHF 915 LTE 2Dimg EU2

## Accessories

Article No.	Order Ref.	Description
323493	B-HH86-Batt-Pistol	Brady HH86 Battery 10050 mAh Pistol grip cover
323494	B-HH86-adapter-USB	Wall Adapter HH86 US-EU-UK-AU

