

REF-HH-B2 / REF-HH-BG2 / REF-HH-B6 / REF-HH-BG6



ANKAREF Handheld Type RFID Terminal



The ANKAREF Handheld Type RFID Terminal is a continuously operating, infrastructure-mounted UHF RFID reading solution designed for automated asset and inventory tracking at entry and exit points in warehouse and logistics environments. Built around the Impinj E310 UHF RFID module and operating within the ETSI 865–868 MHz frequency band, it delivers reliable, hands-free tag detection without requiring manual scanning. The reader is designed for permanent installation at gates, dock doors, and access corridors, enabling real-time visibility of goods movement with zero operational interruption. With support for wireless connectivity via WiFi and Bluetooth, it integrates seamlessly into existing warehouse management systems and IoT infrastructure.

UHF (865–868 MHz) RFID Reading Capability

Data Transfer via BLE, WiFi

Built-in GPS (Optional)



Technical Specifications

Processor and Memory

Model Code	REF-HH-BG2	REF-HH-BG6	REF-HH-B2	REF-HH-B6
Processor	Dual-core Tensilica Xtensa LX6, 240 MHz			
RAM	520 KB SRAM			
ROM	448 KB			
Flash Memory	4 MB			

RFID Reading Unit

Operating Frequency	ETSI (865 - 868 MHz)			
Protocol	ISO18000-63 (EPC Class 1 Gen 2)			
RFID Module	Impinj E310 UHF RFID Based Storage			
Output Power	25 dBm (max)			

Antenna Structure

Antenna Polarization	RHCP (Circular)			
Antenna Gain	1.5 dBic			

Wireless Communication

Version	Bluetooth v4.2			
Supported Modes	BR/EDR (Classic Bluetooth), BLE (Bluetooth Low Energy)			
Frequency Band	2.4 GHz band, IEEE 802.11 b/g/n			

Positioning (GPS)

GPS	Available	Available	Not Available	Not Available
Supported Systems	GPS, QZSS, GLONASS, Galileo, BeiDou			

Power & Battery

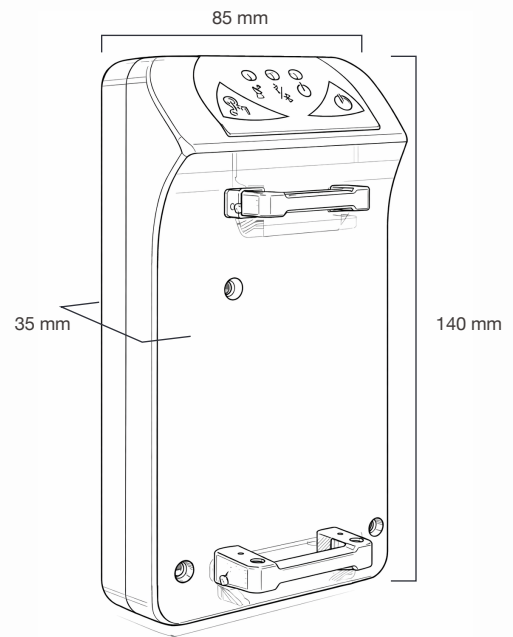
Battery Type	Lithium-ion			
Capacity	2.000 mAh	6.000 mAh	2.000 mAh	6.000 mAh
Idle (Standby)	~16.5 Hours	~50 Hours	~16.5 Hours	~50 Hours
Active (Full)	~2.5 Hours	~6.5 Hours	~2.5 Hours	~6.5 Hours
Input Terminal	USB Type-C			

Environmental Operating Conditions

Operating Temperature	Between -20 °C and +60 °C RFID			
Storage Temperature	Between -20 °C and +45 °C			
Drop Resistance	1,5 m			
Humidity	5% - 95% (non-condensing environment)			
Protection	IP54			
Frequency Band	2.4 GHz band, IEEE 802.11 b/g/n version			

Physical Specifications

Model Code	REF-HH-BG2	REF-HH-BG6	REF-HH-B2	REF-HH-B6
Dimensions	85 mm W x 140 mm H x 35 mm D			
Weight	202 gr	350 g	202 g	350 g
LED Indicator	Power LED, GPS LED, BLE LED	Power LED, GPS LED, BLE LED	Power LED, BLE LED	Power LED, BLE LED
Buttons	Power Button + User Button			
Notifications	Light Alerts (LED)			



Accessories

