NORDIC ID HH83

THE FUTUREPROOF AND DURABLE CHOICE FOR DATA COLLECTION

Nordic ID HH83 is designed for **quick, accurate and reliable** data collection whether it is for barcode or UHF RFID reading. When the decision has to be made, choose the new generation of reader that is **timeless and futureproof.** There are many things to consider and so many choices. If only you had a crystal ball to see what the future will bring.

It's a good thing you selected the Nordic ID HH83. The **ergonomic** design is easy to hold so the staff does not complain. You know that the **modular** design will work with your barcode and RFID locations, just **upgrade** instead of replacing the device. The finance guys will appreciate that!

IT wants software that complies with the company rules and the **Android 10** fits perfectly.

Anybody else have needs? Well the warehouse needs durability. The **IP65** rating and drop tested design will take care of that.

Who needs a crystal ball?

PRODUCT VARIANTS

NORDIC ID HH83
RFID ACD

NORDIC ID HH83
BARCODE

NORDIC ID HH83
ACCESSORIES

Desktop charger

Belt holster

UHF RFID   WLAN   LTE   2D Imager Barcode   Bluetooth   GNSS   Android 10   App Center

PRODUCT HIGHLIGHTS

- Market leading state-of-the-art UHF RFID performance
- Future proof your data collection with this powerful industrial level RAIN RFID performance
- Protect your investment thanks to our easily upgradeable modular design: transform barcode to RFID whenever you are ready

- Ergonomic design focused on comfortable use
- Operates a full working day on a single charge
- Android operating system for easy application development
- Fully integrated to Nordic ID solutions
- Supports Android Enterprise EMM / MDM and Remote Access platforms

NORDIC ID HH83

UHF 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	Max. ERP 2 W (33dBm) / EIRP 3.3 W (35.2dBm) Adjustable in 1dB steps (30 steps)
Antenna features	• Software controllable antenna polarizations (vertical, horizontal or vertical/horizontal switching) • Reading range up to 15 m / 50 ft
Max receive sensitivity	-80 dBm
Typical reading speed	Up to 1000 tags per second

BARCODE IDENTIFICATION AND IMAGING

2D imager	• All major 1D barcodes and 2D codes • High visibility LED aimer • 2 characters pre and post fixes, padding, replacement • Enhanced aiming mode (automatic switching between scan line / aiming dot) • Configurable scan alert sounds
Camera	5 Mpix rear-facing camera with auto focus and LED flash (torch mode supported)

PLATFORM

RFID	Nordic ID NUR2-1W reader module
CPU	Octa-Core ARM Cortex-A53 1.8 GHz
Operating system	Android 10
Memory	• 2 GB RAM • 16 GB Flash • MicroSD slot with support for SDXC cards
Sensors	Accelerometer, ambient light sensor, Time of Flight sensor (only in barcode variant), proximity sensor, pedometer, gyroscope

USER INTERFACE

Display	• 4.7 HD capacitive touch screen, 1280 x 720 pixels, 16.7 M colors • Adjustable LED backlight, Daylight readable, Gorilla glass 3, usage with gloves supported
Keypad	3 backlit physical keys below the display, 2 customizable trigger buttons on the sides
Audio	Microphone, earpiece and IHF speaker
Signals and indicators	RGB LED and vibra for haptic feedback

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	IP65		

CONNECTIVITY

Wireless WAN (optional)	Europe • 4G LTE (B1/B3/B5/B7/B8/B20/B28A/B38/B40/B41) • 3G WCDMA (B1/B2/B5/B8) • GPRS / EDGE (850/900/1800/1900)
GNSS (optional)	Assisted GPS, BeiDou, GLONASS and Galileo
Wireless LAN	IEEE 802.11 a/b/g/n/ac. Dual band WLAN, supports 2.4 GHz and 5 GHz networks
Wireless PAN	• Bluetooth 4.2 Class 2 • Classic and Low Energy modes supported
PAN	• USB 2.0 via USB Type-C connector • Desktop charger provides USB connectivity via USB Type-C connector
NFC	NFC standards supported: ISO/IEC 14443A, ISO/IEC 14443B, FeliCa, ISO/IEC 15693 (Vicinity)

POWER

Battery	• Rechargeable, removable Lithium-Ion battery: 6700 mAh, 3.6 V or 3350 mAh, 3.6 V • Up to 12 hours in intensive use
Charging	• Charging over desktop charger (0 to 100 %) 4 h • Charging over USB Type-C connector (0 to 100 %) 4 h (with charger supporting Qualcomm Quick Charge 3.0)
External power supply	• AC adapter for desktop charger: input 100-240 VAC, 1A, 50-60 Hz / output 24 VDC, 1.25A, 30 W / Power cable for EU, UK or US • AC adapter for multiunit desktop charger: input 100-240 VAC, 1A, 50-60 Hz / output 24 VDC, 6.25A / 150W / Power cable for EU, UK or US
Backup battery	Back-up battery for real-time clock: keeps time for 200 days
Battery Hot Swap	Supported

SIZE AND WEIGHT

Dimensions	
• Nordic ID HH83 RFID ACD	• (H) 212 x (W) 83/72 x (D) 133/29 mm / (H) 8.3 x (W) 3.3/2.8 x (D) 5.2/1.1 inch
• Nordic ID HH83 BARCODE	• (H) 177 x (W) 78/72 x (D) 35/29 mm / (H) 7.0 x (W) 3.1/2.8 x (D) 1.4/1.1 inch

Weight	
• Nordic ID HH83 RFID ACD	• With 6700 mAh battery: 515 g / 18.17 oz
• Nordic ID HH83 BARCODE	• With 3350 mAh battery: 340 g / 11.99 oz With 6700 mAh battery: 380 g / 13.40 oz

DROP AND SHOCK

Drop and impact resistance	1.6 m / 5.2 ft	
ESD	Contacts	+/- 4 kVdc
	Air discharge	+/- 8 kVdc

SUPPORT

• Maintenance service and extended maintenance contract
• Software customization and development support
• Technology, product and integration training
• Technology and project consultation
• Project management services

WARRANTY

• 2 year warranty
• Free technical support during and after 2 year warranty

SOFTWARE DEVELOPMENT ENVIRONMENT

• Android Studio, Visual Studio
• Source code available at: https://github.com/NordicID