

## NORDIC ID HH53

Nordic ID HH53 is designed for quick, accurate and reliable data collection whether it is for purely barcode reading, short- or long range UHF RFID reading or heavy-duty UHF RFID inventory. The mobile computer is equipped with Android operating system and a 4.3" touchscreen with high processing power. The new processing capability enables developing more sophisticated and smoothly running applications offering an ease-of-use experience. The Gorilla Glass 2 touchscreen provides a high screen quality and robustness.

What makes Nordic ID HH53 so powerful is the new Nordic ID NUR2-1W module which provides state-of-the-art UHF RFID reading performance.



### PRODUCT VARIANTS

NORDIC ID HH53 UHF RFID ACD



NORDIC ID HH53 UHF RFID



UHF RFID



WLAN



2D Imager  
Barcode



Blue-  
tooth



Android

#### UHF RFID IDENTIFICATION

Supported standard	ISO 18000-63 (EPC Class 1 Gen2)
Frequency	ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
<b>RF radiated power</b>	
Nordic ID HH53 UHF RFID ACD	ERP 2W / EIRP 3.3W
Nordic ID HH53 UHF RFID	ERP 100mW / EIRP 164mW
<b>Antenna features</b>	
Nordic ID HH53 UHF RFID ACD	Software controlled antenna modes: linear (horizontal & vertical), circular and proximity Nominal reading distance: Linear polarization mode 10 m/33ft, circular polarization mode 6 m/20 ft, proximity mode, read range down to 1 cm/0.4 inch
Nordic ID HH53 UHF RFID	Linear polarization Reading range up to 1 m / 3.3 ft
Max receive sensitivity	-77 dBm
Typical reading speed	Up to 1000 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
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#### PRODUCT HIGHLIGHTS

- Cutting edge UHF RFID reading sensitivity and reading speed
- Adaptive UHF RFID antenna with multiple operation modes
- Long operating time with single charge
- Android operating system for easy application development

#### SOFTWARE DEVELOPMENT ENVIRONMENT

- Android Studio
- 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

#### WARRANTY

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



PLATFORM	
RFID	Nordic ID NUR2-1W reader module
CPU	Quad-Core ARM Cortex-A9 1GHz
Operating system	Android 6
Memory	1 GB RAM 8 GB Flash (>5GB available storage)
Sensors	Accelerometer and ambient light sensor for display backlight adjustment
USER INTERFACE	
Display	4,3" WVGA capacitive touch screen, 800 x 480 pixels, 262k colors Adjustable LED backlight, Daylight readable (Blanview), Gorilla glass 2
Keypad	5 buttons below the display and trigger buttons
Signals and indicators	Speaker for audible signals and vibra for haptic feedback
CONNECTIVITY	
Wireless WAN	3G UMTS / HSDPA (900/2100 MHz) GPRS / EDGE (900/1800 MHz) (optional)
Wireless LAN	IEEE 802.11 a/b/g/n. 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 micro USB connector Desktop charger provides USB connectivity via micro USB connector
POWER	
<b>Battery</b>	
Nordic ID HH53 UHF RFID ACD	Rechargeable, removable Lithium-Ion battery 7000 mAh, 3.7V Up to 12h in intensive use
Nordic ID HH53 UHF RFID	Rechargeable, removable Lithium-Ion battery 3500 mAh, 3.7V Up to 8h in intensive use
<b>Charging</b>	
Nordic ID HH53 UHF RFID ACD	Charging over desktop charger (0 to 100%) 6-12 h Charging over micro USB connector (0 to 100%) 6-12 h
Nordic ID HH53 UHF RFID	Charging over desktop charger (0 to 100%) 3-6 h Charging over micro USB connector (0 to 100%) 3-6 h
External power supply	AC adapter for desktop charger: input 100-240 VAC, 1A, 50-60 Hz / output 5,2 VDC, 3A, 15 W / Power adapter for EU, UK or US
Backup battery / batteries	Back-up battery for real-time clock: keeps time for 200 days
SIZE AND WEIGHT	
<b>Dimension</b>	
Nordic ID HH53 UHF RFID ACD	(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
Nordic ID HH53 UHF RFID	(H) 158 x (W) 83 x (D) 21 mm / (H) 6.2 x (W) 3.3 x (D) 8.3 inch
<b>Weight</b>	
Nordic ID HH53 UHF RFID ACD	550 g / 19 oz
Nordic ID HH53 UHF RFID	320 g / 11.3 oz
DROP AND SHOCK	
<b>Drop and impact resistance</b>	
Nordic ID HH53 UHF RFID ACD	1.2 m / 3 ft
Nordic ID HH53 UHF RFID	1.5 m / 4 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	

