

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
RF radiated power	
Nordic ID HH53 UHF RFID ACD	ERP 2W / EIRP 3.3W
Nordic ID HH53 UHF RFID	ERP 100mW / EIRP 164mW
Antenna features	
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 (optional)	3G UMTS / HSDPA (900/2100 MHz) GPRS / EDGE (900/1800 MHz)
GNSS (optional)	Assisted GPS & GLONASS (available only in wireless WAN variant)
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
LAN	Ethernet 10/100Mbps via desktop charger (sold separately)
PAN	USB 2.0 via micro USB connector Desktop charger provides USB connectivity via micro USB connector
POWER	
Battery	
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
Charging	
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	
Dimension	
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
Weight	
Nordic ID HH53 UHF RFID ACD	550 g / 19 oz
Nordic ID HH53 UHF RFID	320 g / 11.3 oz
DROP AND SHOCK	
Drop and impact resistance	
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		

