



NORDIC ID SAMPO S3

THE MAINSTAY OF RETAIL RFID – THE ALL-IN-ONE SAMPO S3

Reliability, ease-of-use, and speed. These are the breed qualities of the legendary, all-purpose Finnhorse. The Nordic ID Sampo S3 RFID reader delivers these very same promises.

You won't need any external hardware with the Sampo S3: just one reader covers your entire point-of-sale. Its slim, lightweight chassis conceals an integrated antenna and reliable, fast edge computing. Don't settle for less: choose eight years of proven, uncompromising performance.

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Linux



Ethernet



USB



WLAN



Bluetooth



UHF RFID



LED indicators

PRODUCT HIGHLIGHTS

- Powerful UHF RFID long-range reading performance
- Integrated Nordic ID NUR3-1W module for increased performance and reading speeds
- Integrated Linux based computer for versatile software possibilities/development
- Versatile host and device connectivity options
- Avoid cross readings due to high isolation between antenna ports
- One device for EU or US frequency environments

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UHF RFID	
Supported standard Frequency band Regulatory	ISO 18000-63 (EPC Class 1 Gen2v2) ETSI 865.6-867.6 MHz and FCC/IC 902-928 MHz
Max sensitivity	-87dBm
Typical reading speed	Up to 1000 tags/second
Radiated power (integrated antenna)	Maximum: 33 dBm (2W) ERP / 3.3 W EIRP Minimum: 4 dBm (2.5mW) / 4 mW EIRP
Integrated antenna features	Wide band antenna which covers ETSI and FCC/ IC frequency band, 7dBiC circular polarized, Beam width 80°
Conducted power for external antenna ports	+30dBm
External antenna port	3 ports RP-SMA female
RFID module	Nordic ID NUR3-1W, powered by Impinj E710 RAIN RFID chip
PLATFORM	
CPU	Quad-core A7 1.1GHz
Operating system	Customized Linux
Memory	1GB RAM 8GB Flash
USER INTERFACE	
Indicators	4 pcs LEDs: Connection, Error/status, Power, RF Buzzer for sound indications
CONNECTIVITY	
GPIO	Industrial mini IO port (4 GPIO)
USB	USB host, type A USB device, type C (CDC serial port and HID profiles supported)
LAN	Ethernet 10/100 Mbit
Wireless LAN	2.4G/5G, 802.11 a/b/g/n
Bluetooth	BT 2.1 + EDR/3.0/4.1 LE /BT4.2
Bluetooth profiles	SPP, HID, HOGP (HID over GATT)
POWER	
External power	PoE+ 802.3at
Operating power	12W with maximum RFID transmission level and all the radios (WLAN and Bluetooth) enabled. 4W in idle state, with RFID and all the radios

SIZE AND WEIGHT	
Dimensions	(W) 200 x (L) 260 x (H) 36 mm / (W) 7.9 x (10.2 x (H) 1.4 inch
Weight	773gr
ENVIRONMENT	
Environmental sealing	IP20, for indoor use only
Inbox content	1 WLAN/Bluetooth antenna
Operating temperature	-20 °C to 55 °C (-4 to 130 °F)
Storage temperature	-40 °C to 85 °C (-40 to 185 °F)
Mounting	VESA 75/100 Compatible
SOFTWARE INTERFACE	
Data management	Nordic ID Radea
Firmware update	Via Web management UI and the RESTful service
Management interface	Web management UI and SSH for developers
IP Address configuration	IPv4 DHCP or Static IP
API support	NUR API for RFID and RESTful service to access reader configuration
Software development	Ready-to-use Nordic ID NUR API that provides full control over the reader. Application can be written with modern programming languages. MQTT support (broker or client). Compatible with existing Nordic ID fixed readers.
Security	TLS v1.3, WLAN profiles: WPA2-Personel and WPA2- Enterprise (PEAP-MSCHAPV2 and EAP-TTLS/PAP)

All information is subject to change without prior notice.



SERVICES AND SUPPORT

- Free support during and after warranty time
- Maintenance service and extended warranty contract
- Software customization and development support
- Technology, product and integration training
- Technology and project consultation
- Project management services

WARRANTY

- 2 year warranty
- Extendable up to 5 years

SOFTWARE DEVELOPMENT ENVIRONMENT

- Fast and reliable edge computing with support for custom embedded applications