

NORDIC ID SAMPO S1

Nordic ID Sampo products include fixed readers and antennas, which come with a flat design. The products are easily integrated into the installation environment.



PRODUCT VARIANTS

NORDIC ID SAMPO S1



NORDIC ID SAMPO S1  
ONE-SERIES



UHF RFID



USB



PoUSB



Light  
Sensor



Tapping  
Sensor



LED  
indicators



Buzzer

UHF RFID

Supported standard	ISO 18000-63 (EPC Class 1 Gen2 V2) AES authentication in accordance with ISO/IEC 29167-10 supported
Frequency band	ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
Regulatory	CE ETSI EN 302 208, CE ETSI EN 301 489, FCC part 15.247 IC RSS-210, Safety IEC 60950-1
Typical reading speed	200 tags / sec in DRM mode
Nordic ID Sampo S1 radiated power	Adjustable in 1 dB steps Integrated standard antenna variant: +30dBm (1 W) ERP Integrated low-gain antenna variant: +20dBm (100 mW) ERP Integrated near-field antenna variant: +27dBm (500 mW) ERP External antenna ports: +27dBm (500 mW)
Nordic ID Sampo S1 One-series radiated power	Adjustable in 1 dB steps Integrated standard antenna variant: +33dBm (2 W) ERP Integrated near-field antenna variant: +30dBm (1 W) ERP External antenna ports: +30dBm (1 W)

PRODUCT HIGHLIGHTS

- Long-range and accurate RFID reading
- GPIO connector
- Three external antenna ports
- Power over USB or external power supply

SOFTWARE APPLICATIONS

- RFID Demo Software for testing reader capabilities
- RFID Configurator software for configuring the reader

SOFTWARE DEVELOPMENT

- Ready-to-use Nordic ID NUR API that provides full control over the reader
- Application can be written in C/C++, .NET languages and Java
- USB driver for:  
Windows XP SP3  
Windows Vista Business / Ultimate  
Windows 7 Professional / Ultimate

Integrated antenna features	Integrated standard antenna variant: 8 dBic circular polarized Beam width: 80° Nominal reading distance: 5 m (16 ft) / (One-Series 7 m (23 ft)) Integrated low-gain antenna variant: -2 dBic circular polarized Beam width: 80° Nominal reading distance: 1.5 m / 5 ft Integrated near-field antenna variant: 2 dBi near-field optimized antenna Nominal near-field reading distance: 0-20 cm / 0-8 inches (One-Series 0- 40 cm / 0-16 inches) Nominal far-field reading distance: up to 2 m / 6.5 ft (One-Series 0-3 m / 0-10 feet)
External antenna port	3 pcs. 50 Ω / SMA Female (optional)
USER INTERFACE	
Signals and indicators	LEDs: Power, RFID on, RFID read and Communication Buzzer for sound indications Light sensor and tapping sensor for triggering reading
CONNECTIVITY	
LAN PAN	Bus powered USB 2.0 device (appears as a serial port)
GPIO (optional)	4 inputs, opto isolated, max. 24V 4 outputs, opto isolated, max. 50mA
POWER	
External Power Supply	USB or 240/110V AC/DC adapter
Operating Power	USB only version: 3 W One-Series: USB only version: 4 W
SIZE AND WEIGHT	
Dimensions	(W) 200 x (L) 260 x (H) 25 mm ((W) 7.9 x (L) 10.2 x (H) 1.0 inch)
Weight	540 g / 19.0 oz
ENVIRONMENT	
Operating Temperature	-20 to 55 °C    -4 to 130 °F
Storage Temperature	-40 to 85 °C    -40 to 185 °F
Environmental sealing	IP20, for indoor use only

All information is subject to change without prior notice. Availability of product variants may vary regionally.

SUITABLE APPLICATION AREAS

- Point-of-sales
- Document tracking
- Access control
- Tag programming stations
- Smart shelves and smart displays
- Inventory management

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

