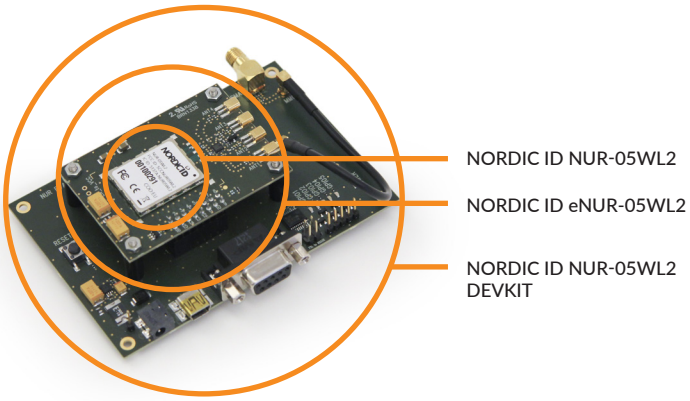
NORDIC ID NUR-05WL2 RFID MODULES

The NUR RFID module is developed by Nordic ID and is available for anyone wishing to build their own RFID reader solution. We provide the module in different formats; as an SMD component or mounted on a PCB for easier integration.

For development purposes, the development kit provides the fastest way to test the module capabilities and to start the software development.



PRODUCT VARIANTS

NORDIC ID NUR-05WL2

NORDIC ID eNUR-05WL2

NORDIC ID NUR-05WL2 DEVKIT

UHF RFID

RF Power	+27 dBm (500 mW) adjustable in 1 dB steps
Typical reading speed	200 tags / sec
RFID Protocol support	EPC class 1 gen2v2 (ISO 18000-63)
Frequency	ETSI 865.6 – 867.6 MHz FCC / IC 902 – 928 MHz Built-in region support for Japan, Malaysia, China, Brazil, New Zealand, Australia, India, Korea, Russia, Singapore, Vietnam, Philippines, Thailand, Morocco and Peru. Others can be customized via NUR API.
Regulatory	CE ETSI EN 302 208 CE ETSI EN 301 489 FCC part 15.247 IC RSS-210 Safety IEC 60950-1

INTERFACE

Nordic ID NUR-05WL2	Communication interface: USB 2.0 full speed, UART Antenna: 50 Ω / VSWR <1.5:1 GPIO: 5 pcs / 3.3 V
Nordic ID eNUR-05WL2	Physical connector: 16 (2x8) Pin header connector for power, communication and GPIO's Communication interface: USB 2.0 full speed and UART (16-pin header connector) Antenna: 4 x MMCX connectors, 50 Ω / VSWR <1.5:1 GPIO: 5 pcs / 3.3 V (2 GPIO's reserved for integrated antenna switch)
Nordic ID NUR-05WL2 Devkit	Communication interface: USB 2.0 full speed / mini USB, UART / D-sub 9 Antenna: 4 x MMCX connectors, 50 Ω / VSWR <1.5:1, 1 x MMCX to SMA converter GPIO: 5 pcs / 3.3 V (2 GPIO's reserved for antenna switch / Pin-header)

PRODUCT HIGHLIGHTS

- High performance with +27dBm output power, adjustable in 1dB steps
- Low power consumption
- UART and USB 2.0 communication
- Antenna autotuning
- Autosensing inventory parameter possibility
- 5 programmable GPIO with event trigger
- Selectable receiver decoding, link frequency and transmitter modulation (ASK/PR-ASK)

ENVIRONMENT

- Free support during and after 1 year warranty time
- Software customization and development support
- Technology, product and integration training
- Technology and project consultation
- Project management services

SOFTWARE INTERFACE	
Software Development	Ready-to-use Nordic ID NUR API that provides full control over the reader in various Windows, Linux and Android OS environments Applications can be written in C/C++, .NET and Java languages NUR protocol over serial connection
POWER	
Operating Power	2.9 W (max at 3.6 VDC)
Supply Voltage	For Nordic ID NUR-05WL2 and Nordic ID eNUR - PCB Embedded Module: 3.4 to 5.4 VDC (typical 3.6 VDC) For Nordic ID NUR-05WL2 Devkit: 4.5 to 5.4 VDC (typical 5.2 VDC)
SIZE AND WEIGHT	
Dimensions	Nordic ID NUR-05WL2: W 25 x L 20 x H 2.5 mm (W 0.98 x L 0.79 x H 0.1 inch) Nordic ID eNUR-05WL2: W 44 x L 62 x H 4 mm (W 1.73 x L 2.44 x H 0.16 inch) (excluding pin-header connector) Nordic ID NUR-05WL2 Devkit: W 106 x L 72 x H 25 mm (W4,17 x L 2,83 x H 0,98 inch)
Weight	Nordic ID NUR-05WL2: 2.5 g (0.09 oz) Nordic ID eNUR-10W: 10 g (0.35 oz) Nordic ID NUR-10W Devkit: 64 g (2.26 oz)
ENVIRONMENT	
Operating Temperature Storage Temperature	-20 °C to 55 °C (-4 to 130 °F) -40 °C to 85 °C (-40 to 185 °F)

EU DIRECTIVE 2002/96/EC ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

CE

All information is subject to change without prior notice.

nordic id

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