NORDIC ID ENUR UHF RFID – PCB EMBEDDED READER MODULE

Nordic ID eNUR embedded module is designed to reduce the time for designing new RFID systems. Nordic ID eNUR is fast and easy to implement into new or existing designs, eliminating the placement of fine pitch SMD components and reducing the overall cost.

Cost-effective integration with the state of the art UHF RFID reader module Nordic ID NUR 05WL2 makes the Nordic ID eNUR PCB embedded module an outstanding choice for everything from simple mobile readers to port readers with multiple antennas.



PRODUCT VARIANTS

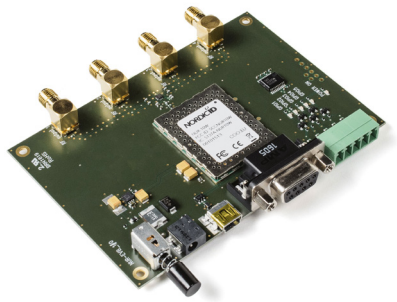
NORDIC ID NUR-05WL2



NORDIC ID eNUR-05WL2



NORDIC ID NUR-05WL2 innovation board



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 gen2 (ISO 18000-6C)
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. 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	
Physical connector	16 (2x8) Pin header connector for power, communication and GPIO's USB mini-B connector for power and communication in Nordic ID eNUR-05WL2 version
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)
POWER	
Operating Power	2.9 W (max at 3.6 VDC)
Supply Voltage	3.4 to 5.4 VDC (typical 3.6 VDC)

PRODUCT HIGHLIGHTS

- PCB module with small footprint.
- High performance with +27dBm output power, adjustable in 1dB steps
- Low power consumption
- UART and USB 2.0 communication
- Autosensing inventory parameter possibility
- 5 programmable GPIO with event trigger
- Selectable receiver decoding, link frequency and transmitter modulation (ASK/PR-ASK)
- Increased sensitivity due to automatic leakage cancellation

SOFTWARE DEVELOPMENT

- Ready-to-use Nordic ID NUR API that provides full control over the module
- Application can be written in C/C++ and .NET languages

BENEFITS

- Ready placed SMD components
- Easy design integration
- Quick time-to-market
- Reduce overall cost

SIZE AND WEIGHT	
Dimensions	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)
Weight	10 g / 0,35 oz
ENVIRONMENT	
Operating Temperature	-20 °C to 55 °C -4 to 130 °F
Storage Temperature	-40 °C to 85 °C -40 to 185 °F

All information is subject to change without prior notice.

Nordic ID NUR embedded module is also available in the following types of versions:

NORDIC ID NUR-05WL2 UHF RFID - SMD EMBEDDED READER MODULE

- Extremely small footprint SMD UHF RFID reader module

NORDIC ID NUR INNOVATION BOARD

- Available as Nordic ID NUR innovationboard or complete development kit

SERVICES AND SUPPORT

- 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

RAIN RFID

NORDIC ID GROUP
Joensuunkatu 7 | FI-24100 Salo, FINLAND
tel. +358 2 727 7700 | fax +358 2 727 7720
service@nordicid.com | www.nordicid.com

GERMANY
Nordic ID GmbH | Bielefeld, GERMANY
tel. +49 5206 70 84 70 | fax +49 5206 70 847 10
info@nordicid.de | www.nordicid.de

V1009