

## NORDIC ID NUR-10W RFID MODULES

The NUR 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 Nordic ID offers two different options. The innovation board and the development kit provide the fastest way to test the module capabilities and to start the software development.



### PRODUCT VARIANTS

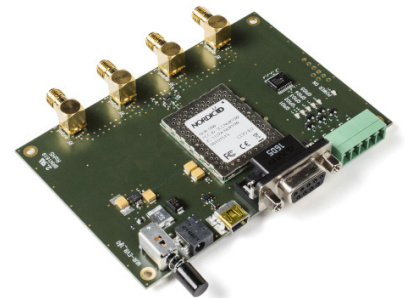
NORDIC ID NUR-10W



NORDIC ID eNUR-10W



NORDIC ID NUR-10W innovation board



### UHF RFID

RF Power	+30 dBm (1000 mW) adjustable in 1 dB steps
Typical reading speed	200 tags / sec
RFID Protocol support	ISO 18000-63 (EPC Class 1 Gen2v2)
Frequency	ETSI 865.6 – 867.6 MHz 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

### INTERFACE

Nordic ID NUR-10W	Communication interface: USB 2.0 full speed, UART Antenna: 50 Ω / VSWR <1.5:1 GPIO: 5 pcs / 3.3 V
Nordic ID eNUR-10W	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-10W innovation board	Communication interface: USB 2.0 full speed / mini USB, UART / D-sub 9 Antenna: 4 x SMA connectors, 50 Ω / VSWR <1.5:1 GPIO: 5 pcs / 3.3 V (2 GPIO's reserved for antenna switch / Pin-header)

### PRODUCT HIGHLIGHTS

- High performance with +30dBm 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 4.3 W (max at 3.6 VDC)

Supply Voltage For Nordic ID NUR-10W and Nordic ID eNUR-10W: 3.4 to 5.4 VDC (typical 3.6 VDC)  
For NORDIC ID NUR-10W innovation board: 4.5 to 5.4 VDC (typical 5.2 VDC)

## SIZE AND WEIGHT

Dimensions Nordic ID NUR-10W: W 34 x L 28 x H 3.5 mm / W 1.34 x L 1.10 x H 0.14 inch  
Nordic ID eNUR-10W: 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-10W innovation board: W 106 x L 72 x H 13 mm / W 4.17 x L 2.83 x H 0.51 inch

Weight Nordic ID NUR-10W: 5.5 g / 0.19 oz  
Nordic ID eNUR-10W: 13g / 0.46 oz  
NORDIC ID NUR-10W innovation board: 67g / 2.36 oz

## ENVIRONMENT

Operating Temperature -20 to 55 °C -4 to 130 °F  
Storage Temperature -40 to 85 °C -40 to 185 °F



All information is subject to change without prior notice.