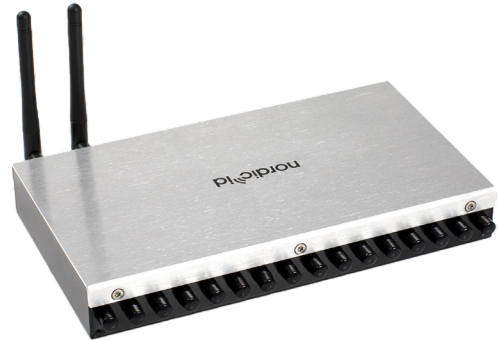


Smartness everywhere

Nordic ID AR82 is a fixed 16 port reader with a computer inside and multiple connectivity options. Nordic ID AR82 provides powerful UHF RFID performance with highly isolated external antenna ports that prevents cross readings. This makes Nordic ID AR82 ideal for shelf reading. The new Nordic ID NUR2-1W module inside allows for a reading speed of up to 1000 tags/s. Its integrated computer enables installation and operation of 3rd party applications.



 **UHF RFID**
 **WLAN**
 **Ethernet**
 **USB**
 **3G**
 **PoE/**
 **LED indicators**
 **Linux**

| UHF RFID | |
|--|---|
| Supported standard | ISO 18000-63 (EPC Class 1 Gen 2) |
| 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 |
| Max receive sensitivity | -81 dBm |
| Typical reading speed | Up to 1000 tags/s |
| Conducted power | 30 dBm (1 W) |
| External antenna port | 16 pcs. 50 Ω / SMA Female |
| Isolation between external antenna ports | 35 dBm / typical |
| PLATFORM | |
| CPU | 1.2GHz 64-bit Quad-Core Cortex-A53 processor |
| Operating system | Debian based embedded Linux |
| Memory | 1 GB RAM 4 GB flash |
| USER INTERFACE | |
| USB | USB host, type A USB device, type B |
| SIM | Mini-SIM |
| Indicators | 4 pcs (programmable) leds |
| CONNECTIVITY | |
| GPIO | 4 inputs, opto isolated, max. 24V 4 outputs, opto isolated, max. 50mA |
| Wireless WAN (optional) | 3G HSPA (B1, B2, B5, B6, B8 and B19) 2G GPRS / EDGE (850, 900, 1800 and 1900 MHz) |
| LAN | Ethernet 10/100 Mbit |
| Wireless LAN (optional) | IEEE 802.11 a/b/g/n, works as an WLAN access point for other Nordic ID readers Dual band WLAN, supports 2.4 GHz and 5 GHz networks |
| POWER | |
| External Power Supply | PoE 802.3af or AC/DC adapter: input 100-240 VAC, 1A, 50-60 Hz / output 24 VDC, 1.25A |
| Operating Power | 12W PoE, 20 W DC Note! Wireless LAN and WAN disabled in PoE use |

HIGHLIGHTS

- Smart fixed area reader for automated UHF RFID data collection
- Enables real-time visibility of tagged items
- Integrated Linux based computer for versatile SW development options
- Cutting edge UHF RFID reading sensitivity and reading speed
- Versatile communication options
- Improved isolation between antenna ports to avoid cross readings

SERVICES AND SUPPORT

- 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



SIZE AND WEIGHT

| | |
|------------|--|
| Dimensions | (L) 210 x (W) 121 x (H) 31 mm / (L) 8.3 x (W) 4.8 x (H) 1.2 inch |
| Weight | 700 g / 24.7 oz |

ENVIRONMENT

| | |
|-----------------------|--|
| Environmental sealing | IP20, for indoor use only |
| Inbox content | Nordic ID AR82 and VESA 75 compatible mounting bracket and installation kit (power supply not included!) |
| Operating Temperature | -20 °C to 55 °C (-4 to 130 °F) |
| Storage Temperature | -40 °C to 85 °C (-40 to 185 °F) |
| Mounting | Detachable mounting bracket with VESA 75 |

SOFTWARE INTERFACE

| | |
|--------------------------|---|
| Data management | Nordic ID Radea |
| Device management | Nordic ID Radea |
| Firmware update | Via Web management UI and the RESTful service |
| Management interface | Web management UI and SSH for developers |
| Development tools | GBD and ptvsd |
| IP Address configuration | IPv4/IPv6 DHCP or Static IP |
| API support | NUR API for RFID and RESTful service to access reader configuration |
| Other protocols | LLRP |
| Software development | Ready-to-use Nordic ID NUR API that provides full control over the reader Application can be written with modern programming languages Compatible with existing Nordic ID fixed readers |



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ELECTRICAL AND
ELECTRONIC
EQUIPMENT (WEEE)

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