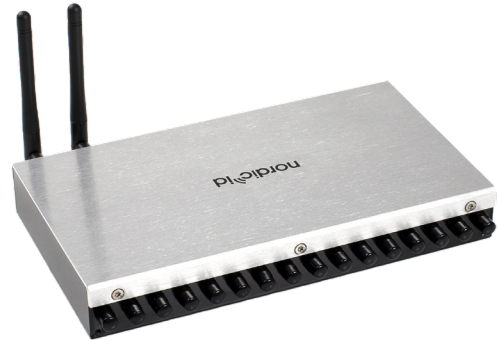## Smartness everywhere

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 Frequency band Regulatory	ISO 18000-63 (EPC Class 1 Gen 2) ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz 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

RAIN RFID

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

CE

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

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

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