nordicid**ar**

NORDIC ID AR55

Nordic ID AR55 brings powerful, automated RFID reading performance in versatile environments. This area reader optimizes reading accuracy also at the edge of reading areas. The Nordic ID AR55 now covers a larger reading area and thus provides you with improved on-demand visibility of your tagged items. This product is ideal for RFID-based gate solutions and efficiently monitoring designated areas.

UHF RFID	WLAN	Ethernet	USB	PoE	LED indicators

UHF RFID

Supported standard	ISO 18000-63 (EPC Class 1 Gen2 V2)
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
Typical reading speed	200 tags/ sec in DRM-mode
Radiated power	33 dBm (2 W) ERP
Integrated antenna	Radiation beams: 13 (26 radiation states due to dual polarization) Polarization: Dual-Linear 3dB Beam width: 45 ° Beam steering: ± 40 °
Floor coverage area per reader	Max. 120 m² (2 x installation height)
External antenna port	2 pcs. 50 Ω / SMA Female

USER INTERFACE

Indicators	4 pcs (programmable) leds: Power, Communication, RFID on and Error

CONNECTIVITY

LAN PAN	Ethernet 10/100 Mbit USB 2.0 device (appears as a serial port), type B
Wireless LAN (optional)	IEEE 802.11 b/g/n

POWER

External Power Supply	PoE 802.3af or 240/110 V AC/DC adapter
Operating Power	8 W PoE, 6.5 W DC

SIZE AND WEIGHT

Dimensions	(W) 405 x (L) 405 x (H) 68 mm / (W) 15.9 x (L) 15.9 x (H) 6.7 inch (without installation parts)
Weight	2.2 kg (4.14 lb) / 2.46 kg (5.7 lb) with optional AC/DC power supply

ENVIRONMENT

Operating Temperature	-20 °C to 55 °C	-4 to 130 °F
Storage Temperature	-40 °C to 85 °C	-40 to 185 °F
Environmental sealing	IP20, for indoor use only	
Mounting	VESA 75/100 Compatible	

PRODUCT HIGHLIGHTS

- Outstanding reading performance and large reading coverage
- Improves on-demand visibility and detecting location and movement
- Enables automated monitoring of tagged items
- Versatile communication options
- Ideal for RFID-based gate and area monitoring solutions
- Fits perfectly in various physical environments

ENVIRONMENT

- 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

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DATASHEET

SOFTWARE DEVELOPMENT INTERFACE AND TOOLS

Software development	Ready-to-use Nordic ID NUR API that provides full control over the reader Application can be written in C/C++ and .NET languages* Compatible with existing Nordic ID fixed readers
Software Applications (optional)	RFID Configurator software for configuring the reader, RFID Demo

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

*Linux, Java environment

BEAM PATTERN
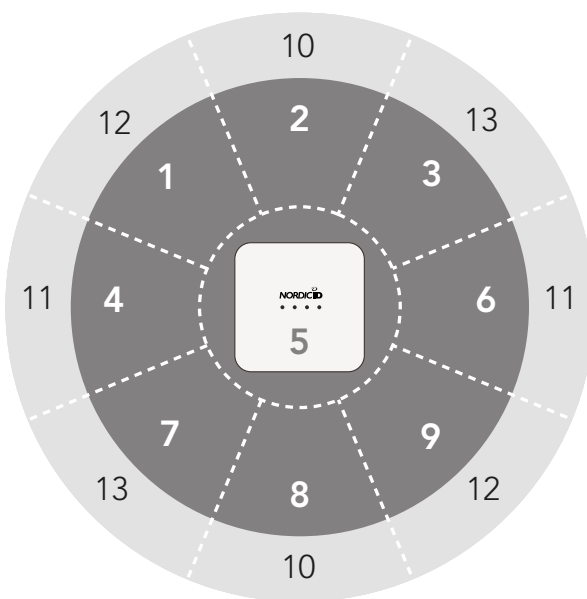
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