

NVITE

multiple technology reader

Key features:

- ✓ enables multiple identification technologies
- ✓ proximity and smartcard technology
- ✓ 1D and 2D (QR) barcodes
- ✓ NearField Communication (NFC) and Bluetooth Low Energy (BLE)
- ✓ Mobile ID Protocol for implementation with third party apps
- ✓ easy reader integration, installation and configuration
- ✓ designed for access control, parking and logistics applications

NVITE is a multiple technology reader that reads proximity and smartcard technology, 1D and 2D (QR) barcodes and supports NearField Communication (NFC) and Bluetooth Low Energy (BLE). The NVITE reader is designed to work in outdoor and indoor applications for access control, parking and logistics management.

The multi-technology reader NVITE offers advanced functionality when operating with a varied group of users or when combining a mix of different physical and digital credential technologies. Identification is depending on the user-enabled technologies: presenting a card, scanning a barcode or activating a smartphone credential.



Mobile ID Protocol

The NVITE reader supports third party smartphone applications enabling BLE and NFC communication between the reader and the mobile device. The required Nedap Mobile ID Protocol is available on request.

Communication interfaces

NVITE ensures seamless integration and supports a variety of well-established industry-standard protocols, such as Wiegand, clock & data and serial connections like RS485. Based on RS485, the Open Supervised Device Protocol (OSDP) is an industry standard for secure communication of RFID readers.

Technical information	NVITE multiple technology reader
Part number	9565531 NVITE (model: MACE Reader MM QR)
Dimensions	150 x 50 x 40 mm (5.9 x 2 x 1.6 inch)
Color	RAL9006 cover and RAL7016 chassis
Weigh	0,5 kg (1.1 lbs)
Protection class	IP65 (approx.NEMA4x)
Material	Aluminium (Zamak5) chassis with polycarbonate cover
Operating temperature	-20...+60°C (-4...+140°F)
Storage temperature	-20...+60°C (-4...+140°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Power supply	12 ... 24 VDC (from power-limited UL294 or UL603 Listed power source)
Power consumption	0.4A@12VDC, 0.2@24VDC
Read range	Bluetooth Low Energy: configurable up to 25 cm (proximity), 2m (short), 5m (medium) or 15m (long) NFC, proximity card and smartcards: up to 5cm
Barcode scanner	QR-code (QR1, QR2, QR micro), as well as most mainstream 1D and 2D barcodes
Operating frequency	Bluetooth low energy 2.402 – 2.480 GHz NFC & smartcards: 13.56 MHz Proximity cards: 120 kHz
Air interface	120 kHz: Nedap proprietary encoding standard 13 MHz: according to ISO 14443/15693 2.45 GHz: according to bluetooth 4.0
Communication interfaces	RS485 and USB2 service interface, additional interfacing options exist. Please consult your representative.
Communication protocols	CR/LF and OSDP. Mobile ID Protocol available on request; please consult your representative.
Relay output	No relay output
Input	2 TTL digital inputs for LED control (RED/GREEN), 1 TTL digital input for beeper control
Output	Wiegand, Magstripe (clock & data)
Max. cable length	Fixed cable length of 5 meters (16.4 ft) included (pigtail) Wiegand 150 m (500 ft) 22AWG RS485 1200 m (3950 ft) when installed properly
Cable specifications	Pigtail cable - 5 meters (16.4 feet) included Wiegand cable -150 meters (500 feet) 22AWG RS485 cable - 1200 meters (3950 feet)
Tamper switch	Magnetic switch, normally closed
Standards	Europe R&TTE Directive 1999/5/EC USA: FCC Title 47 Part 15B and 15C Canada: ISSED ICES-003 and RSS210 Safety: EN60950-1 EMC: EN301489 Telecom: EN330 330 and EN300 328 Human Exposure assessment: ICNIRP Guidelines, EN62369 and EN50364 UL294
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