# **TRANSIT Ultimate**

long-range vehicle and driver identification reader

## **Key features:**

- 🥝 simultaneous vehicle and driver identification
- read range up to 15 meters\* (50 feet)
- 오 object speed up to 200 km/h (125 mph)
- tag authentication based on AES encryption
- 오 adjustable read range
- 🤣 bi-directional communication
- 📀 variety of integrated communication interface
- 📀 robust industrial design
- OSDP v2, including secure channel communication

The TRANSIT Ultimate is an extremely robust RFID reader that enables simultaneous identification of vehicles and drivers in challenging situations. Based on semi active RFID technology, vehicles and drivers are identified at distances up to 15 meters\* (50 feet) and speeds up to 200 km/h (125 mph).

This high-end reader is designed to perform well in high security applications, demanding vehicular access control applications and under harsh environmental conditions. Typical applications include highly secured vehicle access at airports, seaports, mines, military bases and other installations where vehicles must be assigned to specific drivers.

### **Channel selection**

The TRANSIT Ultimate operates on a factory-set frequency. The frequency channel selection allows multiple readers to operate in close vicinity of each other without interference.

#### **Read range adjustment**

The reader resolves typical multi-lane, entry and exit reader challenges. The read range of the reader can be adjusted, offering accurate identification in demanding applications.

#### Housing & mounting

The weatherproof TRANSIT Ultimate features an IP66 certified housing. The reader operates reliable under harsh environmental conditions and is able to withstand exposure to rain, snow and ice. Wall mounting equipment is included.



The TRANSIT Ultimate is designed for seamless and flexible integration into existing management systems in the industry, such as security, parking, traffic and logistics.

Several communication interfaces are available such as RS232 (default, standard included), RS422, RS485, HID Interface Board (HIB) and TCP/IP. Also open industrystandards protocols such as Wiegand and OSDP are supported. Customer specific protocols can be implemented on request.

#### **OSDP** capability

The TRANSIT Ultimate long-range RFID reader supports the Open Supervised Device Protocol (OSDP v2) for automatic vehicle identification applications. OSDP enables advanced and secure communication between the long-range RFID reader and the controller. For this feature the TRANSIT OSDP Interface Board is required.

#### **Security Key Pack**

A Security Key Pack is optionally available for the TRANSIT Ultimate. With this key, advanced bi-directional communication between readers and tags becomes available. Additionally, secure authentication of Ultimate tags becomes available to prevent cloning and replay attacks. This function is available for the Ultimate Tag- and Boosters.

\* In combination with Compact Button. The maximum read range depends on identifier type, the installation and the environment.



Part number\$215689 TRANSIT Ultimate - Default Programming RS323/HID 9229201 TRANSIT Ultimate - Custom Programming RS323/HID 9229201 TRANSIT Ultimate - Custom Programming RS422/R5485 9229213 TRANSIT Ultimate - Custom Programming RS422/R5485 9229215 TRANSIT Ultimate - Custom Programming CS42 PROFECTION PROGRAMMING PROFECTION PROFECTION PROGRAMMING PROFECTION PR	Technical specifications	TRANSIT Ultimate
ColorRAL 7016 (cover), RAL 7035 (housing)WeightA kg (6.82 lbs)Protection classIP66 (NEMA4x)MaterialCover ABS, Housing Die-casting ADC12Operating temperature-30 +66°C (-22 +150°F)Storage temperature-30 +66°C (-22 +150°F)Relative humidity10% 93% relative humidity, non-condensingPower supplyInput: 100-240 VAC, 0.3-0.6A (50 - 60 H2) or 24 VDC, 0.7A; Output 24Vdc, 0.1APower consumption<25VA (on AC), <20 Watt (on DC)Reat angeUp to 15 meters (50 feet) in combination with Compact ButtonObject speedUp to 200 km/h (125 mph) at appropriate distanceOperating frequency2.438 - 2.457 GHz, 433.62 & 434.22 MHz (RX-Cat 3) Ton <5sec.Antenna polarizationCircular (LUC) (2450 MHz) integrated antenna; Horizontal (433 MHz); dedicated attenna.Air interfaceCole Live speedCommunication interfacesCelluli trefface board: R5232 / HID (default) Available interface board: R5232 / HID (default) Available interfaceOutputWiegand, Magstripe (clock & data) 1 relay output (NO, common, NO, 24 VDC 2A, 120 VAC 1AAttenna inputOtpo H2 including secure channel communication, CR/LF, DC2/DC4 and various CPM voicols depending upon installed firmware - see firmware manual.InputTL read disable; 3x TL general purpose inputsOutputWiegand, Magstripe (clock & data) 1 relay output (NO, common, NO, 24 VDC 2A, 120 VAC	Part number	9229203 TRANSIT Ultimate - Default Programming RS232/HID 9229206 TRANSIT Ultimate - Custom Programming RS232/HID 9229210 TRANSIT Ultimate - Custom Programming RS422/RS485 9229213 TRANSIT Ultimate - Custom Programming OSDP
Weight4 kg (8.82 lbs)Protection classIP66 (NEMA4x)MaterialCover ABS, Housing Die-casting ADC12Operating temperature-30+66°C (-22+150°F)Storage temperature-30+66°C (-22+150°F)Relative humidity10%93% relative humidity, non-condensingPower supplyInput: 100-240 VAC, 0.3-0.6A (50 - 60 Hz) or 24 VDC, 0.7A; Output 24Vdc, 0.1APower consumption<25VA (on AC), <20 Watt (on DC)Read rangeUp to 15 meters (50 feet) in combination with Compact ButtonObject speedUp to 200 km/h (125 mph) at appropriate distanceOperating frequency2.438 - 2.457 GHz, 433.628 434.22 MHz (RX-Cat 3) Ton <5sec.Antenna polarizationCircular (LHC) (2450 MHz) integrated antenna; Horizontal (433 MHz); dedicated 433 MHz: Encryption based upon diversified AES128; 300kbps/ GFSK 75 kHz; Duty cycle < 1%; IBT not applicableCommunication interfacesDefault interface board: RS232 / HID (default) Available interface board: RS22 / JABS, TCP/IP and OSDP US SDP V2, including secure channel communication, CR/LF, DC2/DC4 and various OEM protocols depending upon installed firmware - see firmware manual.InputTIL read disable; 3x TTL general purpose inputsOutputWiegand, Magstripe (clock & data) 1 relay output (NO, common, NC), 24 VDC 2A, 120 VAC 1AAntenna outputNedap external reader antenna connection 120 kHzAntenna outputNedap external reader antenna connection 120 kHzConnectorsP984364 Wall Mounting Set </td <td>Dimensions</td> <td>274 x 330 x 140 mm (10.8 x 13 x 5.5 in)</td>	Dimensions	274 x 330 x 140 mm (10.8 x 13 x 5.5 in)
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Consult your Nedap representative for country specific standards   Included accessories 9984364 Wall Mounting Set   Optional accessories 5626595 Pole Mounting Kit   9218327 Weather Protection Hood 9216537 Security Key Pack	Tamper switch	Magnetic switch, normally closed
Optional accessories 5626595 Pole Mounting Kit   9218327 Weather Protection Hood   9216537 Security Key Pack	Standards	
9218327 Weather Protection Hood 9216537 Security Key Pack	Included accessories	9984364 Wall Mounting Set
Document version number 3.1	Optional accessories	9218327 Weather Protection Hood
	Document version number	3.1

