

ELATEC

RFID Systems



PRODUCT OVERVIEW

UNIVERSAL READERS:
SIMPLIFYING ACCESS CONTROL

elatec.com

UNIFYING ACCESS. UNIVERSAL READERS FOR ANY ACCESS APPLICATION

ELATEC's universal RFID readers support virtually any access application, anywhere in the world. Our agnostic design strategy means our readers can support multiple technologies, frequencies and protocols for easy integration and interoperability. With multi-technology reader and unparalleled reader software, the ELATEC TWN4 line of universal readers is flexible, powerful and future-proof.

1 PHYSICAL ACCESS

Protect people, facilities and physical assets with physical access control (PAC) solutions for buildings and meeting rooms. RFID lets the right people in and keeps everyone else out — and can even be paired with a PIN or biometric system for higher security.

2 TIME AND ATTENDANCE

Simplify time-and-attendance tracking with RFID readers that integrate with backend systems to track arrival, departure and time on the job. Employees can simply wave their ID badge or phone to clock in or out — no added paperwork required!

3 EV CHARGING

Provide easy access to charging infrastructure to authorized drivers and prevent misuse. Public and private station operators can control access and match driver identities with backend systems for payment, loyalty programs or user tracking.

4 BIKE/CAR SHARING

Give drivers or riders instant access to vehicles, bikes or scooters with a membership card or smartphone app — while preventing unauthorized use. RFID offers the perfect mix of user convenience and security for car and bike share programs.

5 DRIVER IDENTIFICATION

Match drivers to vehicles and monitor driver behavior with RFID readers that can be integrated directly with vehicle locking and telematics systems. Perfect for corporate and industrial fleets: cars, trucks, delivery vehicles and material handling.

6 ELEVATOR

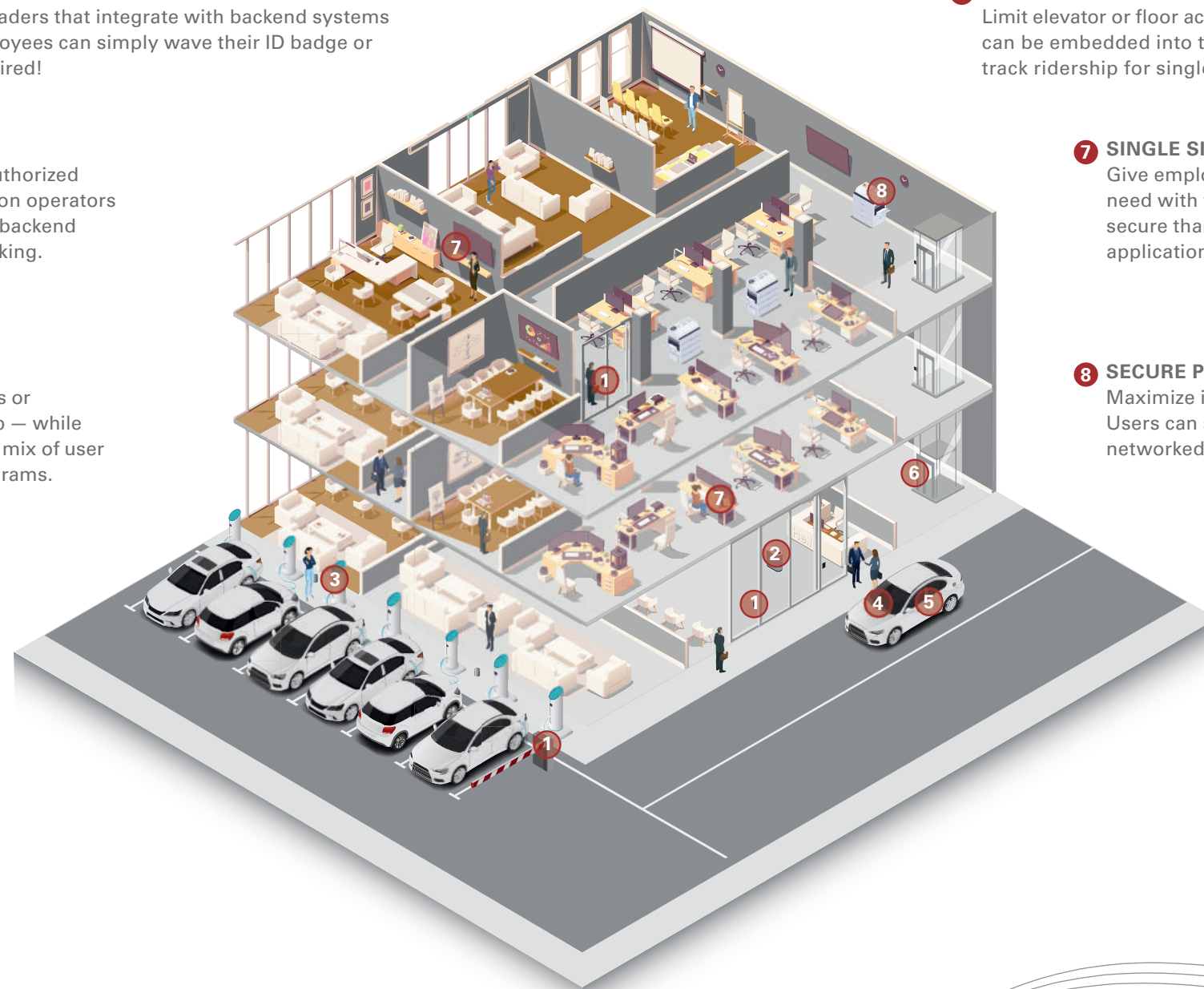
Limit elevator or floor access, identify riders, and track and monitor visitor flows. Readers can be embedded into the elevator panel, wall panel or turnstile to control access and track ridership for single elevators or entire elevator banks.

7 SINGLE SIGN-ON (SSO)

Give employees access to all the business systems, files and data they need with the wave of a card or smartphone. RFID is simpler and more secure than password systems for sign-on to company networks and applications.

8 SECURE PRINTING

Maximize information security with a secure printing system backed by RFID. Users can send print jobs from their workstations and pick them up from any networked printer using their ID card or phone. Simple, smart and secure.



UNIVERSAL READER FAMILY

HOUSING

TWN4 USB Front Reader*
Full version: 125 kHz, 13.56 MHz, NFC, BLE
FRONT READER*



FEATURES

- + Bluetooth Low Energy v4.1,upgradable
- + 90° rotatable USB interface
- + Housing size: 60 x 39 x 16.5

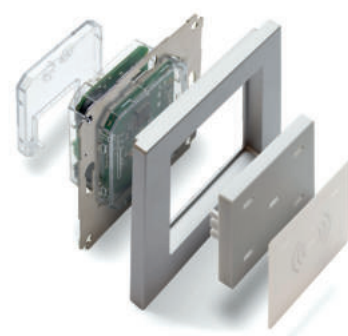
TWN4 MultiTech 2*
Full version: 125 kHz, 13.56 MHz, NFC, BLE
Available in different combinations



FEATURES

- + Bluetooth Low Energy v4.1, upgradable, or v5.x**
- + Housing size: 88 x 56 x 18 mm

TWN4 Palon Compact Wall*
Full version: 125 kHz, 13.56 MHz, NFC, BLE



FEATURES

- + Enhanced interfaces, i.e. RS-232, RS-485
- + Bluetooth Low Energy v4.2, upgradable
- + Optimized PCB design for OEM integration
- + Housing size: 80.5 x 80.5 x 36.5 mm

Secustos SQ80**
Full version: 125 kHz, 13.56 MHz, NFC, BLE
Keypad version available



FEATURES

- + Interfaces and protocols: RS-485 / OSDP v2.2 and Wiegand
- + Apple Access certification available for specific reader models
- + Water and dust protected, IP65 potted housing

TWN4 Slim*
Full version: 125 kHz, 13.56 MHz, NFC, BLE



FEATURES

- + Bluetooth Low Energy v4.2, upgradable
- + System integration and stand-alone reader
- + Housing size: 65.5 x 45.5 x 4 mm

TWN4 Palon Compact Panel*
Full version: 125 kHz, 13.56 MHz, NFC, BLE



FEATURES

- + Enhanced interfaces, i.e. RS-232, RS-485
- + Bluetooth Low Energy v4.2, upgradable
- + Optimized PCB design for OEM integration
- + Housing size: . 82 x 82 x 34.2 mm

Secustos MU20**
Full version: 125 kHz, 13.56 MHz, NFC, BLE
Keypad version available



FEATURES

- + Interfaces and protocols: RS-485 / OSDP v2.2 and Wiegand
- + Apple Access certification available for specific reader models
- + Water and dust protected, IP65 potted housing

* LEGIC version available. ** LEGIC version only.
For exact specifications of each reader, please refer to the corresponding data sheet.

UNIVERSAL READER FAMILY

MODULES

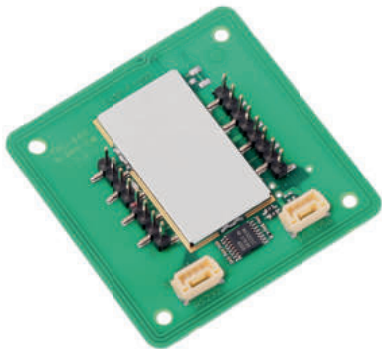
TWN4 MultiTech HF Mini
Full version: 13.56 MHz, NFC



FEATURES

- + Development board for interface testing on request
- + Compact dimensions: 33 x 30 x 11 mm

TWN4 Mini EVP SI M HF
Full version: 13.56 MHz, NFC



FEATURES

- + Development board for interface testing available on request
- + Integrated HF antenna (13.56 MHz) and enhanced HF performance
- + Pin compatible with existing TWN4 MultiTech HF Mini reader

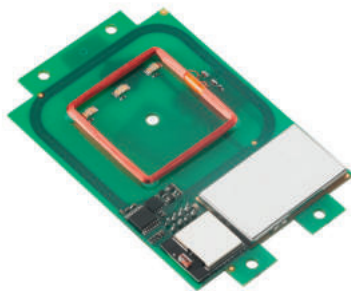
TWN4 MultiTech 3 M*
Full version: 125 kHz, 13.56 MHz, NFC, BLE
Available in different combinations



FEATURES

- + Bluetooth Low Energy v4.1, upgradable
- + 1 onboard SAM socket (Secure Access Module)
- + PCB size: 50 x 35 x 7 mm

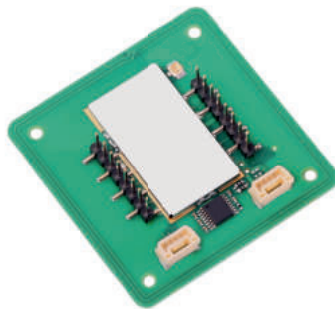
TWN4 MultiTech 2 M*
Full version: 125 kHz, 13.56 MHz, NFC, BLE
Available in different combinations



FEATURES

- + 1 onboard SAM socket
- + Supports the following ISO standards: 14443 A/B, 15693 and 18092/ECMA-340
- + PCB size: 76 x 49 x 9 mm

TWN4 Mini EVP SE M HF
Full version: 13.56 MHz, NFC



FEATURES

- + Development board for interface testing available on request
- + Equipped with a connector for external HF antenna (13.56 MHz)
- + Pin compatible with existing TWN4 MultiTech HF Mini reader

TWN4 MultiTech Nano M*
Full version: 125 kHz, 134.2 kHz, 13.56 MHz, NFC, BLE
Available in different combinations



FEATURES

- + All components mounted on one side for easy integration
- + SMT or THT mounting**
- + PCB size: 31 x 17.8 x 2.7 mm

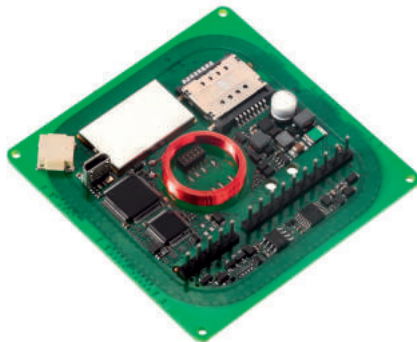
TWN4 Palon Compact M*
Full version: 125 kHz, 13.56 MHz, NFC, BLE



FEATURES

- + Enhanced interfaces, i.e. RS-232, RS-485
- + Bluetooth Low Energy v4.2, upgradable
- + Optimized PCB design for OEM integration
- + PCB board, twin stack*: 41 x 44 x 30 mm

TWN4 Palon Square M LF HF
Full version: 125 kHz, 13.56 MHz, NFC, BLE



FEATURES

- + Interfaces: USB, RS-485, Wiegand and Clock/Data (OSDP prot. and I2 C opt.)
- + On-board SAM socket, up to two slots ID-000 size
- + On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + PCB size 73 x 73 x 25.4 mm

* LEGIC version available. ** LEGIC version only. For exact specifications of each reader, please refer to the corresponding data sheet.

RFID INFRASTRUCTURE TOOLS

ACCESSORIES

TECHTRACER LITE*



FEATURES

- + Enables on-site identification of RFID card technologies
- + Supported frequencies: 125 kHz, 13.56 MHz, NFC
- + Compact dimensions
- + Recognizes more than 60 RFID technologies

TWN4 CONFIG PROGRAMMER KIT



FEATURES

- + Saves custom reader configuration to TWN4 Configuration Card
- + The TWN4 Configuration Card can apply a custom configuration to a reader by a single card swipe
- + Enables large reduction of in-field service support costs

TCPConv

FEATURES

- + Acts as an Ethernet Network switch

NORTH AMERICAN
MARKET ONLY



WHAT OUR
CUSTOMERS
ARE SAYING ...

Exceptional Quality & Reliability*




RFID Readers Tailored to Your Needs*




* ELATEC Customer Survey, 2025. Results based on responses from 126 participants regarding product satisfaction and specific requirements for RFID readers, 1-6 rating scale (1 = Very Unsatisfied, 6 = Very Satisfied).

DUAL AND SINGLE FREQUENCY

ANTENNAS

LOW FREQUENCY AIRCOIL ANTENNAS (125 KHZ)			
Order Code	ANT-006	ANT-036	ANT-039
Inner Ø ¹	17 / 0.67	16 / 0.63	14.1 / 0.56
Outer Ø ¹	< 22 / 0.87	20.4 / 0.8	16.3 / 0.64
Height ¹	4 / 0.16	2 / 0.08	2.2 / 0.09
Inductance	490 µH ± 5%	490 µH ± 5%	490 µH ± 5%
Picture			


LOW FREQUENCY AIRCOIL ANTENNAS (125 KHZ)			
Order Code	ANT-007	ANT-013	ANT-031
Length ²	57 / 2.27	41 / 1.61	27.5 / 1.08
Width ²	36 / 1.42	30 / 1.18	15 / 0.59
Height ²	3 / 0.12	2 / 0.08	2.5 / 0.1
Inductance	490 µH ± 5%	490 µH ± 5%	490 µH ± 5%
Picture			


¹ ANT-010 is a ferrite antenna, Dimensions in mm / inch

² Outer dimensions in mm / inch

³ UMCC antenna cable, 100 mm, female to female for 13.56 MHz, right angle

⁴ Flat ribbon antenna cable, 100 mm, AWG26, 2-pol, 3 mm tinned on both sides for 125 kHz

PCB ANTENNAS		
Order Code	ANT-022	ANT-023
Frequency	125 / 134.2 kHz + 13.56 MHz	125 / 134.2 kHz + 13.56 MHz
Length ¹	56 / 2.2	33 / 1.3
Width ¹	46 / 1.81	30 / 1.18
Height ¹	6 / 0.24	6 / 0.24
Impedance	50	50
Inductance	490 µH ± 5%	490 µH ± 5%
Connectors	LF: Pins, HF: UMCC / U.FL HF: SMA SMB, SMC, MCX	LF: pads 1 mm / 0.04 inch HF: UMCC / U.FL, pads 1 mm / 0.04 inch
Cables	CAB-L1 ³ , CAB-F1 ⁴	CAB-L1 ³ , CAB-F1 ⁴
Picture		

PCB ANTENNAS		
Order Code	ANT-032	ANT-M01C12
Frequency	13.56 MHz	13.56 MHz
Length ²	20 / 0.79	43 / 1,69
Width ²	40 / 1.57	40 / 1.57
Height ²	2.2 / 0.09	11.54 / 0.45
Impedance (HF)	50	50
Inductance		
Connectors	HF: UMCC / U.FL	HF: UMCC
Cables	CAB-L1 ³ , CAB-F1 ⁴	CAB-L3 ²
Picture		

For exact specifications of each reader, please refer to the corresponding data sheet.

UNIFYING ACCESS. UNIVERSAL READERS FOR ANY ACCESS APPLICATION.

PARTNERSHIP. QUALITY. SERVICE.

ELATEC is empowering our partners to transform access through pioneering universal readers, advanced authentication software, and world-class service. Our high-performance reader technologies, combined with deep expertise and unbeatable support, make us a preferred partner for security companies, integrators and original equipment manufacturers world-wide. When you work with ELATEC, you are working with a reliable long-term partner who can help you select the best products, processes and services for your access needs.

AUTHENTICATION — YOUR WAY.

ELATEC's innovative multi-technology readers are built on an agnostic platform to support diverse applications, markets and customer requirements—from physical access control to digital access management, machine authentication, secure printing, EV charging and more. We work closely with OEMs and integrators to enable universal, flexible and future-proof access solutions that are compatible with any application, anywhere in the world. From single applications to unified access systems, via RFID or NFC/BLE mobile credentials, our universal readers support authentication, your way.

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