

TWN4 Palon Compact Panel Light

Multi-frequency panel mount RFID reader (LF/HF) with NFC support



TWN4 Palon Compact Panel Light (exemplary illustration)

The RFID readers and modules of the TWN4 Palon Compact family support two RFID frequencies (125 kHz / 13.56 MHz), NFC and Bluetooth Low Energy (BLE). All devices are available with an NXP or LEGIC SM-4200 frontend and support a wide range of interfaces, for instance USB, RS-485 and, optionally, the OSDP protocol. A cost-optimized "light" variant with fewer interfaces and without BLE is also available. Although the readers are general-purpose devices, they are particularly appropriate for time attendance and access control. Depending on the intended application, the readers are available as modules for integration into a host device, as panel mount readers with IP65 protection or as in-wall readers with an IP54 protected housing.

Key features of the TWN4 Palon Compact Panel Light reader include a customizable and easy-to-install housing with IP65 protection, the possibility to use many different interfaces and a powerful SDK for writing apps that are executed directly on the reader. Additionally, the reader can read more than 60 RFID technologies from low (LF) and high frequency (HF) bands, including NFC. This gives the option to select as many of the technologies required instead of being forced to select just a few ones.

Special features:

- + Possibility to read more than 60 RFID technologies
- Supports many interfaces, like USB and RS-485 (OSDP protocol optionally)
- + Two RFID frequencies (125 kHz/13.56 MHz) and NFC support
- + Powerful SDK for writing apps which are executed directly on the reader
- + Firmware update in the field possible
- On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- Supports transparent data exchange with RFID media
- + CCID and PC/SC 2.01
- + Customizable, IP65 protected housing for easy and quick installation

































TECHNICAL DATA

125 kHz (LF) / 13.56 MHz (HF)		
Integrated		
Transparent polycarbonate (PC) housing, black PC outer mounting ring. TWN4 Palon Compact M Light reader module pre-installed. ABS locknut M63 x 1.5, black or grey, pre-installed design inlay (customizable). For mounting hole diameter 63.2 mm with anti-twist protection		
Approx. 82.00 x 82.00 x 34.20 mm / 3.23 x 3.23 x 1.35 inch		
Micro USB: 4.3 V – 5.5 V Connector X1: 9.0 V – 30 V PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A		
Operating: 160 mA @ 12 V typically / Idle: 50 mA @ 12 V typ. / Peak: 250 mA @ 12 V typ.		
Operating: -25 °C up to +80 °C (-13 °F up to +176 °F) Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)		
IP65 protected housing (frontside, when mounted) 5% to 95% non-condensing		
LF and HF: up to 100 mm / 4 inch, depending on environment and transponder		
USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01		
500,000 hours		
Approx. 77 g / 2.72 oz		
Infrared tamper detector, front facing		
PCB terminal block, 8 positions, push-in spring connection for wires 0.2 to 0.5 mm² / AWG 24 to 20, tool-free cable wiring		
8 position DIP switch for RS-485: addressing, speed settings, line termination		
1 center RGB LED Acoustic loudspeaker		
Depending on the firmware version and installed options, ELATEC readers and modules can support a wide range of RFID technologies. Please refer to the relevant ELATEC transponder matrix (available at www.elatec-rfid.com/int/transponder-technology) for more information about the available options and RFID technologies supported by the product.		
Windows 7 (32-/64-bit) and higher versions, Linux, Android ¹⁾ , iOS ¹⁾ , MAC OS X ¹⁾		
Micro USB, RS-485, OSDP ¹⁾ , 1 SAM slot for ID-000 card format, output 5V: Wiegand D0/D1, Clock/Data		
USB full speed (12 Mbit/s), HF Air: up to 848 kbit/s, RS-485: up to 38,400 baud		
TWN4 Palon Compact M Light		
Non-exhaustive list ²): CE/RED, FCC, IC, REACH and RoHS-III compliant		

¹)On request

²⁾The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.

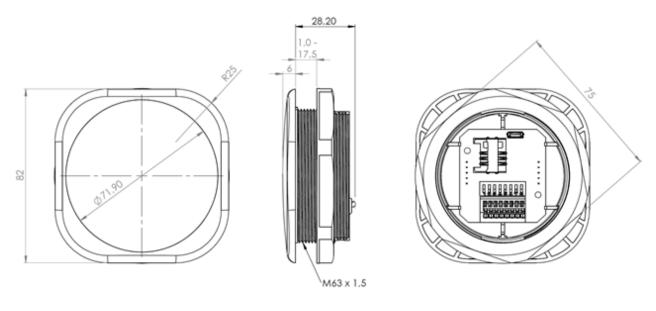


	Kits¹) in cardboard	Kits ¹⁾ in cardboard box packaging		
	T4PK-F02TR6	Standard reader module		
	T4PK-F02TR6-P	Reader module with P option		
	T4PK-F02TR6-PI	Reader module with PI options		
ORDER CODES				
	Kits ¹⁾ in bulk packa	Kits¹) in bulk packaging		
	T4PK-F04TR6	Standard reader module		
	T4PK-F04TR6-P	Reader module with P option		
	T4PK-F04TR6-PI	Reader module with PI options		

¹⁾All standard TWN4 Palon Compact Panel Light kits are delivered with a TWN4 Palon Compact M Light reader module in a transparent housing, a black outer mounting ring, a locknut, an O-ring seal, a standard inlay and installation instructions.

	HOPL-YR01TR	Palon Panel transparent housing with black design frame
ACCESSORIES	MECH-LNB01	Locknut
	MECH-ORB01	O-ring seal
CABLES	ELATEC RFID modu	lles can be delivered with additional cables. Refer to the data sheet
CABLES	Cables for ELATEC	devices for detailed information.

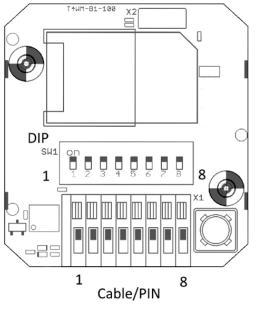




(All measures in mm)

DIP	ASSIGNMENT
1	RS-485 address 0 LSB
2	RS-485 address 1
3	RS-485 address 2
4	RS-485 address 3 MSB
5	RS-485 BIAS on/off
6	RS-485 speed 0
7	RS-485 speed 1
8	RS-485 termination 120 Ohm on/off
	<u> </u>

PIN	ASSIGNMENT
1	(unused)
2	(unused)
3	RS-485 A
4	RS-485 B
5	TTL Wiegand D0 or DATA
6	TTL Wiegand D1 or CLOCK
7	VIN 9 – 30 Volt
8	GND



Drawing / rear view PCB

Firmware may change the assignment of the DIP switch. Please refer to the TWN4 Palon manual. For Wiegand, Clock/Data the DIP switch is not used.

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