

TCP3

Authentication / Release Station



TCP3 (exemplary illustration)

The main purpose of the TCP converters is to enable RFID authentication and access control for devices that lack a USB port, from older single-function printers to industrial robotics. They can be connected on one end to a Local Area Network (LAN) and on the other end to an RFID reader via USB cable. When the user presents a card to the reader, the information is sent over the network to a local server and depending on the response, a print job can be released or, in the example of industrial robotics, operator authorization granted.

ELATEC RFID readers enable organizations to extend the use of their employee identification badge to authenticate for applications beyond physical access. This includes most multi-function printers and some single-function printers. Unfortunately, not all printers and devices have support for the direct connection of a USB proximity card reader, such as those with no USB port. In these situations, the ELATEC TCP3 authentication / release station extends ID card-based capabilities such as authentication and pull printing to any printing device regardless of the manufacturer, make or model.

Special features:

- + Supports the direct connection of a USB proximity card reader
- + Extends use of employee identification badge to authenticate and provide access control
- Minimizes IT support costs associated with additional IP or MAC addresses while consuming only one network drop from its host port
- + Can act as an Ethernet network router
- + Enables user authentication and access control for devices that lack a USB port
- + Allows simultaneous communication of print data and printer status at gigabit speeds
- + Configuration can be saved for later usage on other TCP3s thus saving expensive man hours
- + Supports USB 3.0 and gigabit Ethernet networks
- Optionally available with Power-over-Ethernet as the source of power



































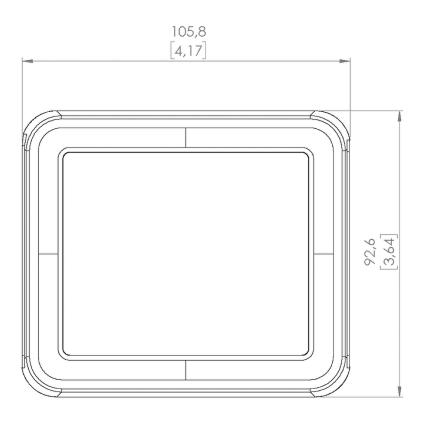
TECHNICAL DATA

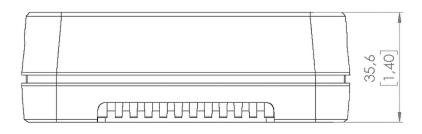
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HOUSING	Material: ABS UL94-V0 Color: black
DIMENSIONS (L X W X H)	Approx. 105.80 x 92.60 x 35.60 mm / 4.17 x 3.64 x 1.40 inch
POWER	External power supply 5 V or internal Power over Ethernet (PoE)
CURRENT CONSUMPTION	Max. 3 A, depending on external load
CORRENT CONSOMETION	Operating: 0 °C up to +45 °C (+32 °F up to +113 °F)
TEMPERATURE RANGE	
RELATIVE HUMIDITY	Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)
RELATIVE HUMIDITY	10% to 90% non-condensing
NETWORK	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s converter to Host or converter to Device
	500 Mbit/s between Host & Device, upgradable to 1.2 Gbit/s at additional cost
	Host: DHCP, Static IP; Device: DHCP, Static IP
OPERATING MODES	TCP Server: Device is connected to a TCP client.
	TCP Client: Device connects automatically to a specified TCP server. The connection may
	be triggered by an incoming flow of data on either USB port. For additional security, the
	connection can be optionally SSL encrypted. Data can be sent via UDP or HTTPS via
LAN COMMUNICATION	JSON.
LAN COMMUNICATION	TCP, UDP, HTTP, HTTPS, IPV4, DHCP, SSL/TSL1.2, Syslog
PROTOCOLS	T 1100 0 0 11 1 1 1
USB	Two USB 3.0 Host ports
	Maximum current: 1.6 A, shared between the two USB ports
	Supported devices: ELATEC TWN3 and TWN4 RFID devices, many magnetic stripe
	readers, many optical bar code readers and PIN pads via HID keyboard or CDC
OPTICALLY ISOLATED I/O	Two optically isolated outputs and one optically isolated input, traditionally used to support
	Foreign Device Interface or Internet of Things
CONNECTORS	Ethernet: 2 x RJ45, 10/100/1000BaseT. Host connector supports PoE
	USB: 2 x USB type A receptacle
	8-pin connector for optically isolated signals
	Power: for plug 5.5 mm/2.1 mm
LED INDICATORS	4 LEDs which use multi-color to indicate Power, Ready, Busy and Status
MEMORY	RAM: 2 GB
	Flash: 8 GB
	SDHC expansion: up to 2 TB
MTBF	500,000 hours
WEIGHT	Approx. 270 g / 9.5 oz
CERTIFICATION NAME	TCP3
	TCP3 POE
CERTIFICATIONS	Non-exhaustive list ¹):
	CE, FCC, IC, REACH and RoHS-III
ORDER CODE(S)	TC3K-BT5EU TCP3 kit with 0.5 m patch cable (RJ45) and power supply EU ²⁾
	TC3K-BT5JP TCP3 kit with 0.5 m patch cable (RJ45) and power supply JP ²)
	TC3K-BT5UK TCP3 kit with 0.5 m patch cable (RJ45) and power supply UK ²⁾
	TC3K-BT5US TCP3 kit with 0.5 m patch cable (RJ45) and power supply US ²⁾
	TC3K-BT5E1 TCP3 kit with 0.5 m patch cable (RJ45) and Power over Ethernet
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¹⁾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.

 $^{^{\}rm 2)}$ Please also refer to the power supply data sheets.







All measures in mm [inch]

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