

TCPConv

USB/RS-232 Ethernet switch



TCPConv
(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.

Thanks to the TCPConv, you can use the RFID technology in your network without having to change your complete IT infrastructure. Thanks to the USB and RS-232 interfaces on the device, it is also compatible with almost all RFID devices of the ELATEC TWN3 and TWN4 product families.

Special features:

- + Easily adds RFID identification capabilities on single function printers and other devices over Ethernet
- + Simple installation between ELATEC TWN3 or TWN4 readers and Ethernet-connected printers
- + Can act as an Ethernet network switch



Elevator



EV Chargers



Access



Shop POS



Fitness
Equipment



Ticket POS



PC Log-on



Document
Management



Driver ID



Vending



Parking



Gaming



Locker Locks



Time
Attendance



Industrial
PC

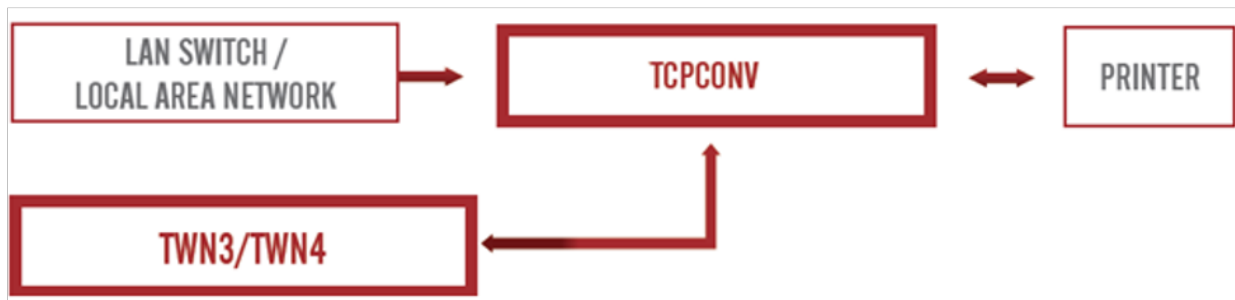
TECHNICAL DATA

HOUSING	Material: ABS UL94-V0 Color: black
DIMENSIONS (L X W X H)	Approx. 82.00 x 65.00 x 25.00 mm / 3.23 inch x 2.56 inch x 0.98 inch
POWER	External power supply 5 V
CURRENT CONSUMPTION	Max. 800 mA, depending on external load
TEMPERATURE RANGE	Operating: 0 °C up to +70 °C (+32 °F up to +158 °F) Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)
RELATIVE HUMIDITY	10% to 90% non-condensing
OPERATING MODES (USB)	TCP Server: Device is connected by 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 the USB or RS-232 port.
LAN COMMUNICATION PROTOCOLS	TCP, IPV4, DHCP, ARP, PING
USB	Type: USB HOST Maximum current: 500 mA Supported devices: ELATEC TWN3 and TWN4 RFID devices
RS-232	Baudrate: Configurable 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 or 115200 Baud Databits: 7 or 8 bits Parity: None, even or odd parity Stopbits: 1 or 2
MTBF	500,000 hours
WEIGHT	Approx. 85 g / 3 oz, without power supply
PERIPHERAL INTERFACES	USB, RS-232, 2 LAN ports
TRANSMISSION SPEED	LAN: 10 / 100 Mbit/s Other features: Auto MDI/MDIX
CERTIFICATION NAME	TCPConv
CERTIFICATIONS	Non-exhaustive list ¹⁾ : CE, FCC, IC, REACH and RoHS-III compliant
ORDER CODES	TC1K-BT1EU TCPConv kit with 0.5 m patch cable (RJ45) and power supply EU ²⁾ TC1K-BT1UK TCPConv kit with 0.5 m patch cable (RJ45) and power supply UK ²⁾ TC1K-BT1US TCPConv kit with 0.5 m patch cable (RJ45) and power supply US ²⁾

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.

²⁾ Please also refer to the power supply data sheets.

SCHEME



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