TCPCONV

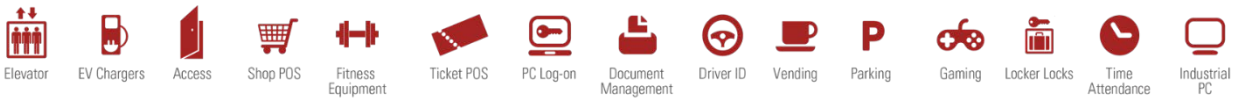
USB/RS-232 ETHERNET SWITCH

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.

TCP converters 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.

Special features:

+ Easily adds RFID identification capabilities on single function printers and other devices over Ethernet
+ Simple installation between TWN3/TWN4 reader and Ethernet connected printer
+ Can act as an Ethernet network switch



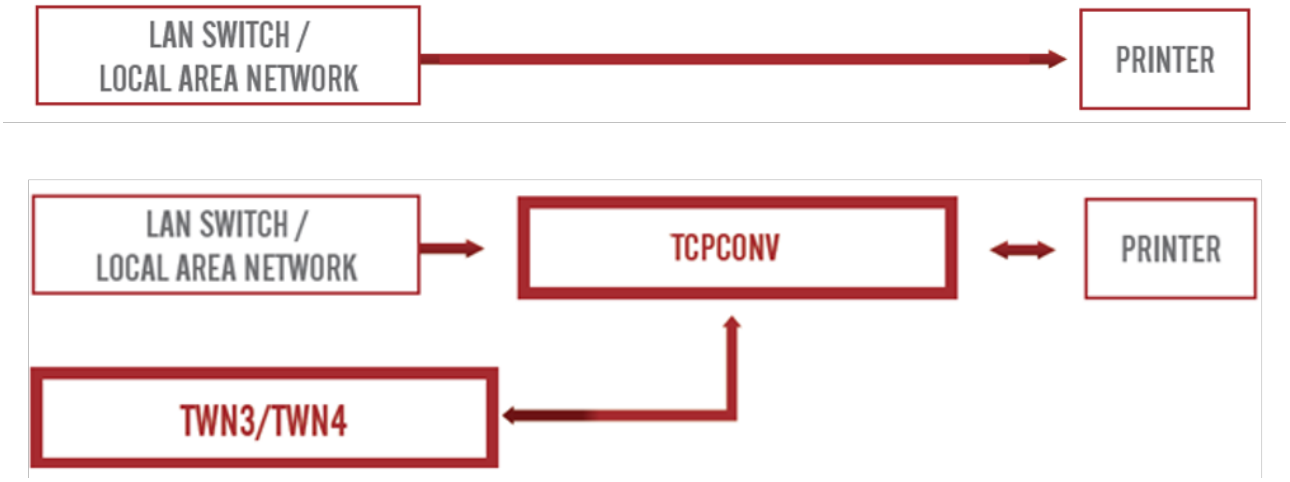
TECHNICAL DATA

HOUSING	Material: ABS UL94-V0, color: black	
DIMENSIONS (L X W X H)	82 mm x 65 mm x 25 mm / 3.23 inch x 2.56 inch x 0.98 inch	
POWER	External power supply 5 V Limited power source according to the safety norms listed in the respective declaration of conformity, short-circuit current < 8 A	
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. Connection may be triggered by incoming flow of data on either the USB or RS232 port.	
LAN COMMUNICATION PROTOCOLS	TCP, IPV4, DHCP, ARP, PING	
USB	Type: USB HOST Maximum current: 500 mA Supported devices: ELATEC TWN3 and TWN4 transponder readers/writers	
RS232	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	
CONNECTORS	Type: USB HOST Maximum current: 500 mA Supported devices: ELATEC TWN3 and TWN4 transponder readers/writers	
MTBF	500,000 hours	
WEIGHT	Approx. 85 g / 3 oz, without power supply	
PERIPHERAL INTERFACES	USB, RS-232	
TRANSMISSION SPEED	10 / 100 Mbit/s, Other features: Auto MDI/MDIX	
CERTIFICATION NAME	TCPConv	
CERTIFICATION(S)	CE/RED, EAC, FCC, REACH and RoHS-III compliant, and many more*	
ORDER CODE(S)	TC1K-BT1EU	TCPConv Kit with 0.5 m patch cable (RJ45) and power supply EU**
	TC1K-BT1UK	TCPConv Kit with 0.5 m patch cable (RJ45) and power supply UK**
	TC1K-BT1US	TCPConv Kit with 0.5 m patch cable (RJ45) and power supply US**
	TC1K-BT1JP	TCPConv Kit with 0.5 m patch cable (RJ45) and power supply JP**

*** More information on request.**

**** Please also refer to the power supplies data sheet(s).**

TCPCONV – SCHEME



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