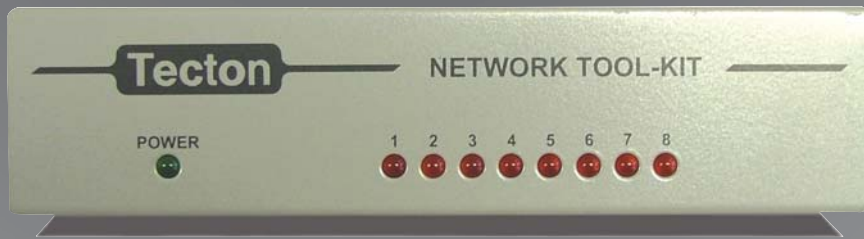


# HIGH PERFORMANCE IP SOLUTIONS



## NETWORK TOOLKIT

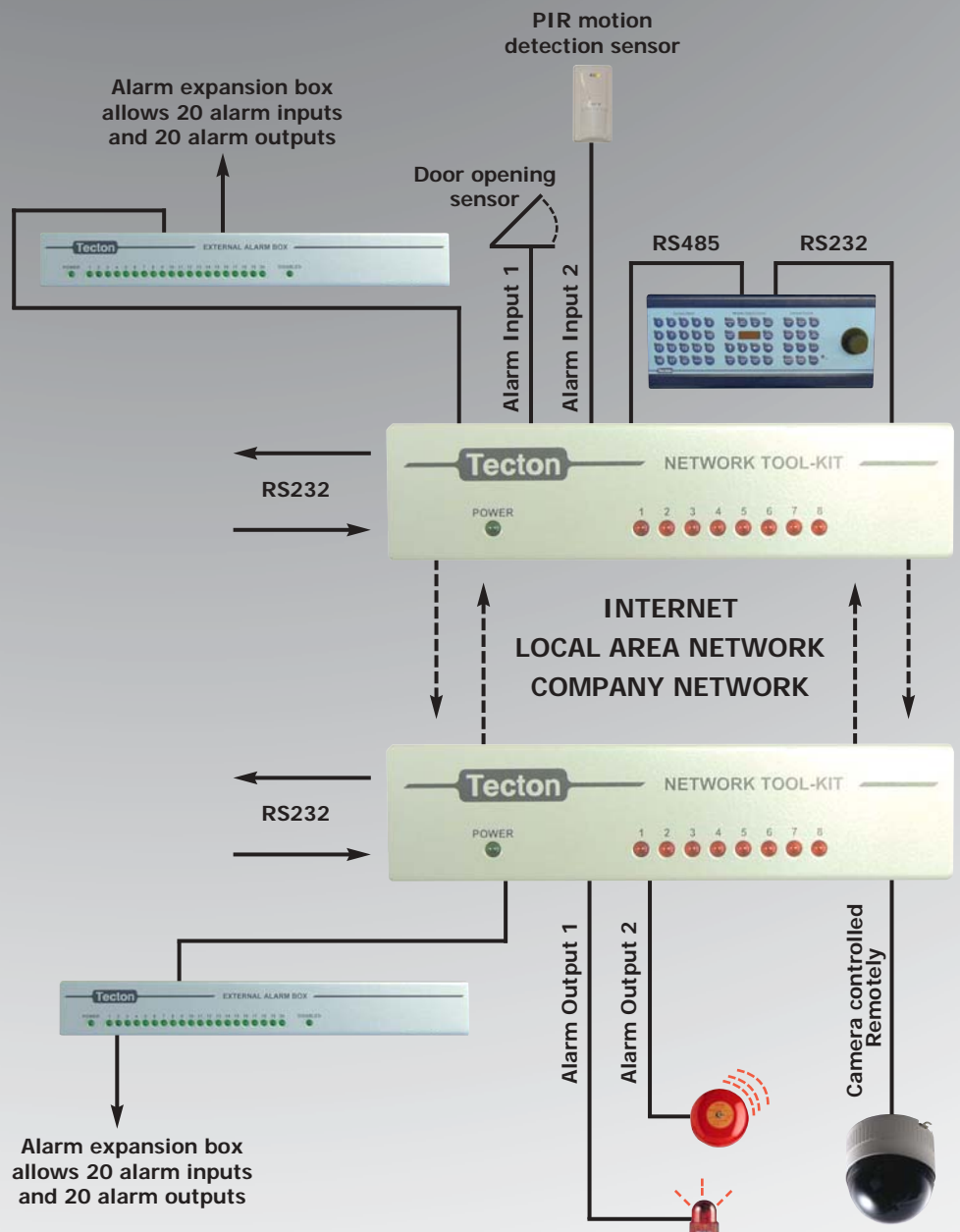
Our Network Toolkit has been designed to allow CCTV and other system designers to pass a range of signals across a network

### APPLICATIONS INCLUDE:

- Releasing gates remotely using relay outputs
- Remotely monitoring alarms over a corporate network
- Controlling camera domes with an RS485 over a network or the internet
- Extending an RS232 keyboard or other device over a long distance
- Fixing Passive Infra Red (PIR) or door sensors in an office in one part of the world and monitor them in another

### FUNCTIONALITY:

- RS232 transmitted across Ethernet / Internet / IP Network
- RS485 transmitted across Ethernet / Internet / IP Network
- Network alarms transmitted across Ethernet / Internet / IP Network



BRITISH MADE

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## NETWORK TOOLKIT



### SERIAL CONNECTIONS:

- 3 general purpose UART's with independently selectable configurations
- BAUD range: 1200, 2400, 4800, 9600 (default), 14400, 19200, 56700 bps
- Number of data bits selectable between 7 or 8 (default)
- Number of stop bits selectable between 2 or 1 (default)
- Parity enable/disable option. When enabled, option of either even or odd parity
- Full duplex
- Large buffer allocated per channel which helps prevent data being lost if the network connection is intermittently lost
- RS232 connector 1 has the option of full hardware handshaking
- RS232 connector 3 is multiplexed between RS232 & RS485. This is selectable during the configuration stage
- 1 status LED per channel, indicating if the connection between the UART's (local & remote Toolkits) is present and data is being transferred
- RS232 connectors on the Toolkit are 9-way D-type and all FEMALE

### ALARM INPUTS:

- 2 alarm inputs
- Configurable trigger modes: low-level, negative edge, positive edge or both edges
- Up to +12V tolerant
- Configurable time delay between consecutive triggers, range: 0-63 seconds
- LED alarm trigger indicator per input
- Each alarm input makes use of 2 pins on a shared 15-way D-type connector (FEMALE)
- Expansion to 20 inputs with additional alarm box

### ALARM OUTPUTS:

- 2 alarm outputs
- Makes use of SPDT relay
- Relay switching of 1mA to 1A
- Switched circuit is isolated from internal circuit
- Configurable idle state: relay idles either ON or OFF
- Configurable time delay between consecutive triggers, range: 0-3599 seconds
- Each alarm output makes use of 3 pins on a shared 15-way D-type connector (FEMALE)
- Expansion to 20 relay outputs with additional alarm box

### MORE PRODUCTS FROM TECTON:



The AUDIO DARLEX - Digitally record up to 20 video and 14 audio inputs simultaneously  
PART NUMBER GX20CD36DV



Tecton remote dome camera control keyboard  
PART NUMBER GX500BJK



The EXTERNAL ALARM BOX  
Allows the user to control 20 alarm inputs / outputs through a single serial point  
PART NUMBER AL20BOX

As it comes from the factory, the Network Toolkit is set up at 9600 baud, N, 8, 1 on the RS232 connections, and 9600 baud on the RS485 connector. Alarm inputs 1 and 2 are mapped to remote relay outputs 1 and 2. You require 2 Network Toolkits, one at either end. A separate external alarm box allows a further 20 alarm inputs and relay outputs to be used at either end. We supply an easy-to-use PC software program which allows you to set up the units' IP address and change the baud rates of the serial links. You can map different RS232 UART's to different IP addresses.

Setting up is by RS232 which can be easily done from any PC or laptop.

### TECHNICAL NOTES:

For a security installation the Network Toolkit is a very useful device. It fills the gaps which other manufacturers leave out and also allows you to remotely configure by RS232 over a network connection.

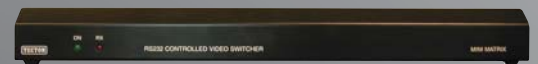
If you want to use an RS232 keyboard to control a product on the other side of the world, this product together with the internet makes this possible. Simplex RS485 allows remote control of the popular CCTV dome cameras. Whatever your keyboard will do your camera will do. Alarm inputs and outputs can be sent over the network of internet. Applications for this are enormous. For example alarms for a building can be transmitted over a secure network to a monitoring centre.

If someone opens a door in a part of the world, you will know about it in another. You can use the alarm inputs to control things that open and close. Gates are an obvious example although there are many more. Our external alarm box has 20 alarm inputs and 20 relay outputs. Just connect it to the Network Toolkit for 20 way expansion. Advanced users can broadcast RS232 / RS485 messages / data from lots of different IP addresses to different data streams if required.

We have designed this product so that it runs out of the box. Connect up the RS232 inputs and at the remote locations, add an IP address and then control it from a distant one.

### BASIC SPECIFICATIONS:

Power = 12v DC at 300MA  
(PSU part number = MPSU4)  
Weight = 1kg (2.2lb)  
Dimensions (W x D x H) = 182 x 182 x 44mm (7.15 x 7.15 x 1.73 inches)  
(1U) Rack mountable  
PART NUMBER = NTKWIT



RS232 Switcher - Switches 17 video inputs into 4 video outputs  
PART NUMBER RSSWI01

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