

EDMSTU

The dip switches.

On the "EDMSTU" there are 4 dip switches. These 4 switches as OPTIONS that control the way the "STU" reports.

Switch 1 - Open / close are sent serial or parallel

When switch 1 is OFF, open / close reports are sent via the "Serial data format" along with the user number that initiated the report.

When the switch is ON, open / close reports are sent in the parallel format on either pin 8 or pin 11 according to the setting of switch 2.

Switch 2 - Open / close are sent pin 8 or 11

When switch 1 is ON and switch 2 is OFF, open / close reports are sent on pin 8.

When switch 1 is ON and switch 2 is ON, open / close reports are sent on pin 11.

Switch 3 - Isolates are sent serially - y/n

When switch 1 is OFF, Isolate/de-isolate reports are sent via the "Serial data format" along with the user number that initiated the report.

Pin 10 on the long status format is also alarmed if isolated and restored when the sections are de-isolated.

When switch 1 is ON, Isolate/de-isolate reports are not sent serially but are still sent in the parallel format on pin 10.

Note

Pin 10 is always used to indicate a section is isolated because it allows the central station to find out if a section is isolated by using the "poll stu" command.

Switch 4 Alarms are sent serial or parallel

When switch 1 is OFF, alarm reports are sent via the "Serial data format".

When the switch is ON, alarm reports are sent in the parallel format on pins 1 to 8.

Panel - Stu connections.

There are three terminals at the bottom right corner of the pcb for connection to the Solution 8 panel.

The terminal marked **C** connects to the terminal marked data **OUT 2** on the Solution 8 panel.

The terminal marked **D** is not connected.

The terminal marked **-** connects to the terminal marked **GND** on the Solution 8 panel.

The terminal marked **+** connects to the terminal marked **+12V** on the Solution 8 panel.

The Leds.

On the EDMSTU there are 4 leds.

Red led - Indicates that low tone is on.

This led will only come on after the STU has been upped by the agency.

The led will turn off when the STU has a change of state to report.

Yellow led - Receiver carrier detect indication.

This led is one of three leds mounted in the centre of the pcb.

This led will be lit when a tone within the frequency range of the receiver is on the telephone line. This tone may be a poll from the Scanner or just sporadic noise caused by speech on the line.

Green led - Processor operating.

This led flashes to indicate that the micro-processor is operating.

It must always be flashing whenever power is applied.

Yellow led - Panel data. This led is the single led located at the end of the PCB.

This led should be normally on and flash off every 0.6 secs, indicating data from the panel is being received by the STU.

Note

If the HARD ID is changed on the panel after the STU has been upped by the agency, the STU will go offline and will need to be upped again.

Terminals

There are six terminals on the right side of the pcb.

Terminal 1 will send an alarm on pin 1 when connected to negative and a restore when negative is removed.

Terminal 2 will send an alarm on pin 2 when connected to negative and a restore when negative is removed

Terminal 3 will give a tamper report (pin 12) when the terminal is connected to negative and a restore when negative is removed.

Terminal 4 will send an alarm on pin 9 when connected to negative and a restore when negative is removed.

Terminal - is the Common negative terminal.

Terminal OP is the securitel output terminal. When the agency turns the output on this terminal will switch to negative until turned off by the agency This terminal will sink 100 mA Maximum.

High integrity Comms earth.

There are 2 terminals at the top of the pcb.

Both these terminals are the same and connect to a dual GAS ARRESTOR.

This device is the same as that used by Telecom in exchanges and main

frames to protect against lightning induced voltages.

If this terminal is connected to an earth rod or cold water pipe, the tolerance to

high voltage or lightning induced transients is greatly increased. The Telecom

input normally has a high tolerance to transients but with this terminal

connected the tolerance is even greater.

Use a heavy conductor for this purpose 40/020 or similar.

Telecom line socket.

This is where the Telecom lead, supplied with the unit is connected.

The Telecom lead uses pins 2 & 6 of the Telecom socket for the incoming line

in a mode 40 arrangement.