Hauptwerk Hardware

Tutti Connection Strip

For Use With The
Tutti Full Organ Midi Encoder

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Key Features.

The Tutti Connection Strip is used to easily make connections between your keyboards, stops & pistons and the Tutti Encoder.

- Large solder pads make connecting wires a breeze.

- Standard 2.54mm pitch male header pins for those who want to use crimp connectors.

- Each connection pad is clearly marked with the note name making wiring foolproof.

- All necessary diodes and grouping circuitry is on board.

- Each Strip has 64 inputs, enough for a single 5 octave keyboard or 64 stops or pistons.

- The Connection Strip simply plugs into the Tutti encoder via a 16 way IDC cable.

- Each Strip easily mounts behind each keyboard. This makes wiring short and accessible.

- Range of detailed 'How to' videos available to watch on YouTube show you exactly how to use the Tutti range to create your dream console.
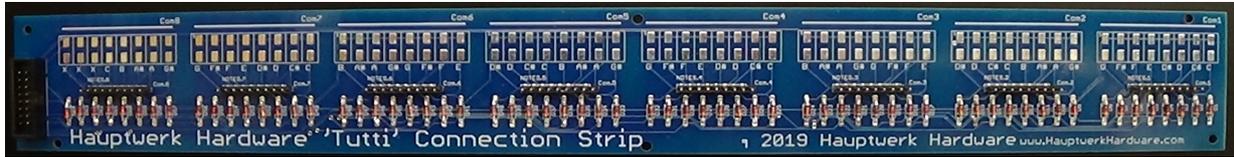
Introduction.

The Tutti Connection Strips are designed to provide an easy way to connect all of your keyboards and other controls within your console to the Tutti Midi Encoder.

They have 64 input pairs that allow you to connect each key individually in groups of eight and then simply plug the connection strip into the Tutti Encoder via a 16way IDC ribbon cable (available separately).

The Connection Strips contain all the necessary diodes and take care of grouping the inputs into eights. Each input on the connection strip is labelled with the relevant note, making connecting keyboards virtually foolproof.
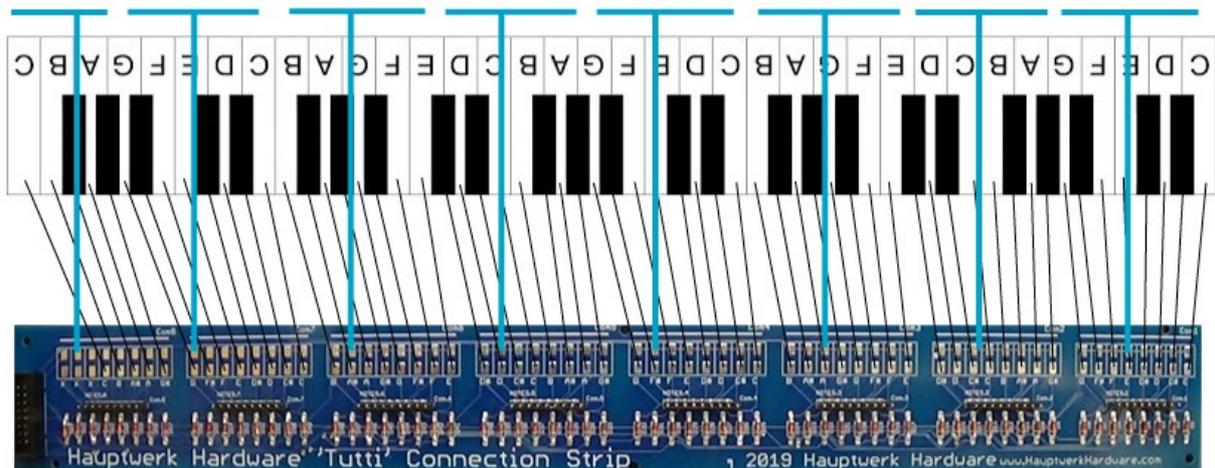
Stops and pistons can also be wired directly to the Tutti Connection Strips making the wiring of a console much faster and easier than ever before.
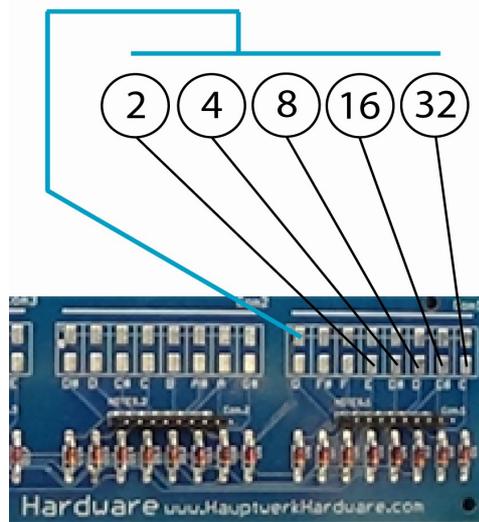
Connections.

The Connection Strip has the usual 16 way connector which you connect to any one of the seven 16 way connectors on the Tutti Encoder via a 16 way ribbon cable. As you can see from the picture there are 64 pairs of inputs which you use to connect to each key of the keyboard or to your stops or pistons. Each input is labelled with the key note name making it as simple as possible to wire up. When you are connecting stops or pistons you can obviously ignore the note names as they are not relevant for this type of input.

The picture above shows how to connect a keyboard to the connection strip. The wires in **black** run from each key and the wires in **blue** connect to the keys in groups of eight and to the connection strip top pads for each group as shown. You can connect the wires in blue to any pad within the group.

Connecting stops and pistons is done in exactly the same way as indicated in the picture below. Only five stops are shown but as you can see they follow the same pattern for connection as the keys of the keyboard.

Mounting

The Tutti Connection Strip has 6 mounting holes of 3mm diameter each. These are for mounting the board in a convenient place within your console. It is important to consider that the reverse of the board is made from copper and that parts of this copper surface carry the electrical signals to and from the encoder. It is therefore necessary to ensure that whatever mounting method you use does not allow the reverse of the board to come into contact with any conductive surface as doing so may present a fire risk and or cause irreparable damage to both the board and the encoder itself. It is suggested that suitable insulating spacers be used in mounting the board leaving a gap of at least 5mm between the board and the mounting surface.

The board is suitable for mounting at any angle in any plane. The board must be installed in a position where it will not suffer condensing moisture, water, physical shock or any contact with moving parts. It must be protected from any conductive items, parts or waste that may fall on it.