

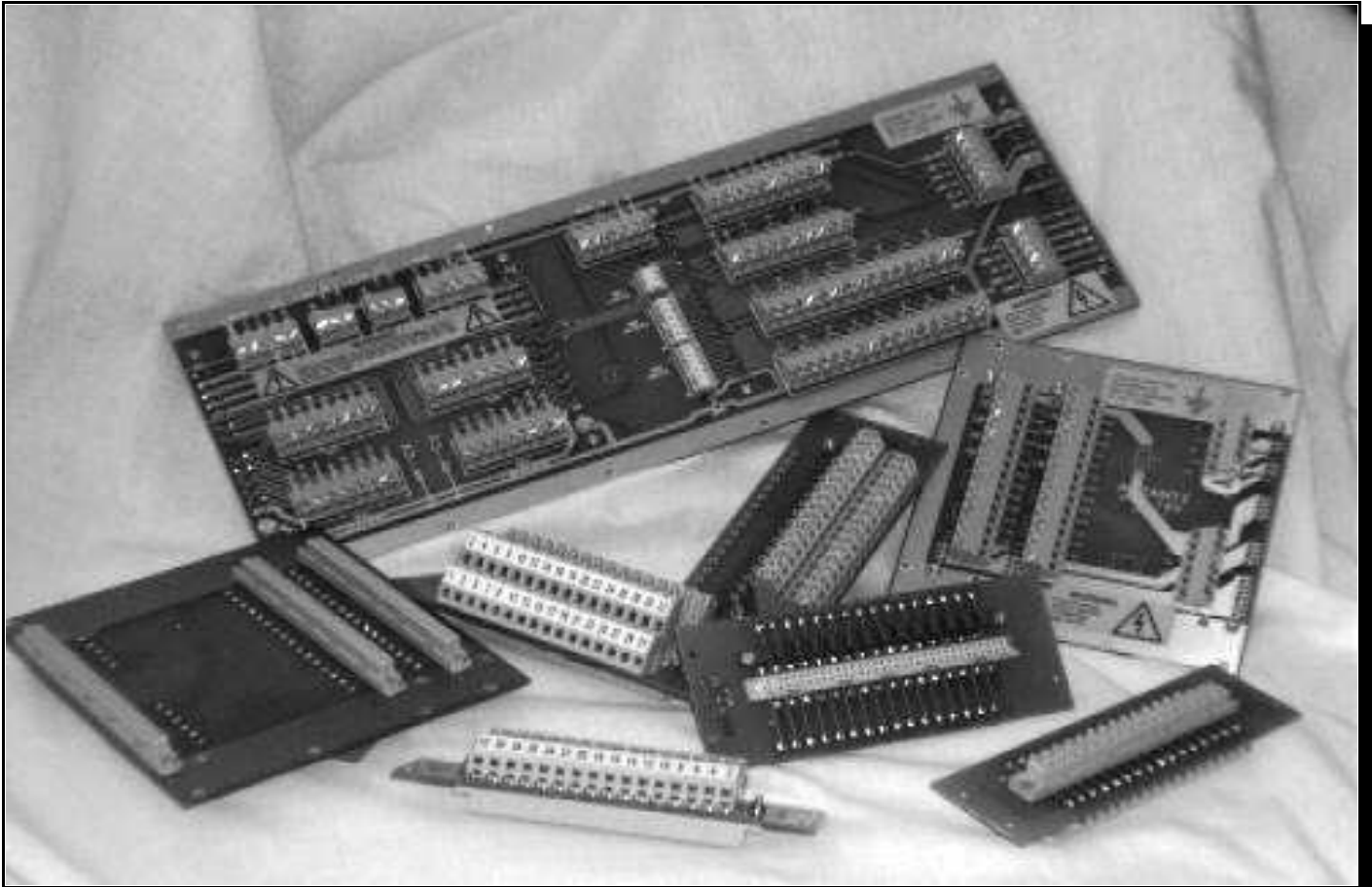
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# UNIVERSAL BACKPLANES

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Alzanti have designed and are now manufacturing a range of Universal Backplanes for use in the high speed assembly and prototyping of 3U 'Eurorack' systems.

The Eurocard compatible DIN41612 series connector is converted to a convenient screw terminal interface thereby eliminating the need for a soldering iron and increasing the speed and ease at which systems can now be assembled and wired.

The range of backplanes consist of 6 models, two of which, the PVP183 & PVP193 are dedicated for use with our range of very popular and **'Original'** Stepper Drives and Power Supplies whilst the remaining four, the PVP191, PVP195A, PVP195A&B and PVP195A&C are truly universal in so much as each of the DIN41612 connector pins are brought individually to a screw terminal which means that not only can they be used with our products but they can be used with most other manufacturers boards with a DIN41612 compatible connector.

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**ALZANTI**®  
THE DRIVING FORCE IN MOTION CONTROL

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## Technical Data

**General** Printed Circuit Board: 1.6mm thick glass fibre laminate (FR4), plated through holes and solder resist. Height = 129mm (3U)  
Screw Terminals: Maximum cable size 2.5mm<sup>2</sup> with 'wire leaf' protection.  
DIN41612 Sockets: Gold plated contacts rated at 100 insertions minimum.

**PVP183** This is a dedicated 2 axis 'Stepper' backplane for use with the PVP163 Power Supply and 1 or 2 stepper drives. The stepper drives can be 2 x PVP2435 3.5Amp/phase or 2 x PVP2460 6Amp/phase or 2 x PVP2490 9Amp/phase or a combination of any of these. There is also adequate space provided to fit the PVP179 Microstep Adapter board to the PVP2460 and PVP2490 stepper drives. In addition to this there is a slot available for the RS Components 2 axis stepper controller board. PCB length = 343mm.

**PVP193** This is a dedicated 2 axis 'Stepper' backplane for use with the PVP102 series power supplies and 1 or 2 stepper drives. The stepper drives can be 2 x PVP134 Unipolar L/R 2Amps/phase or 2 x PVP134B Bipolar L/R 2Amps/phase or one of each type.  
PCB length = 127mm.

**PVP191** This is a general purpose single slot backplane fitted with a DIN41612 style d 32way rows a&c socket with each pin tracked to an individual screw terminal.  
Current rating per pin = 6 Amps maximum. PCB length = 41mm.

### **PVP195 Series**

These are a general purpose range of single slot backplanes.  
Current rating per pin = 1.5 Amps maximum. PCB = 55mm.

**Suffix A** is fitted with a DIN41612 style b 32way row a socket with each pin tracked to an individual screw terminal.

**Suffix A&B** is fitted with a DIN41612 style b 64way row a&b socket with each pin tracked to an individual screw terminal.

**Suffix A&C** is fitted with a DIN41612 style c 64way row a&c socket with each pin tracked to an individual screw terminal.

**NOTE:** The PVP191 and PVP195 Series backplanes are supplied as full height (3U) printed circuit boards, however, there are 'crop' marks on the boards which then allow them to be used in Euroracks fitted with 'Z' rear rails.

These boards are also provided with fixing holes for the Schroff PCB coding system which prevents the circuit boards from being inserted in the wrong slot in a multi-board system.