

Eurocard bus systems

Multilayer Microbus backplanes

This range of multilayer Microbus backplanes is available in 0,8" (20,32mm) and 0,6" (15,24mm) pitches. The 0,8" pitch versions have widths of 5, 10, 20 and 21 slots and the 0,6" pitch version is available in a single 20 slot width only. All widths coincide with either 42HP, 60HP or 84HP DIN41494 cardframes. All multilayer Microbus backplanes feature a patented tracking arrangement which includes 42 signal lines on each side of the board with a 0V guard track between each signal line. Power distribution is designed for use with a maximum of four power rails each capable of handling the total current rating of all connector pins, providing several feeders are used on order to distribute the load evenly.

Features

- 3 layer bonded multilayer construction with 0V ground plane sandwiched between signal layers
- Patented 0V guard tracking between all signal lines
- Theoretical characteristic impedance $Z_0 = 100\Omega \pm 5\%$
- Flexible power rail construction with up to four separate Vcc rails
- Fully assembled with 96/96 standard DIN 41612 compliant pin press-fit connectors and ample spade style power pick-up points
- 0,8 inch (20,32mm) and 0,6 inch (15,24mm) pitch versions
- Compatible with DIN41494 cardframes, multilayer extender boards and stub terminators

Multilayer Microbus Backplane				Ordering information
Slot pitch (HP)	No. of slots	Length x width	Cardframe width	Order code
20,32 (4 HP)	5	96 x 128	21HP	38-39104
20,32 (4 HP)	10	212 x 128	42HP	38-39105
20,32 (4HP)	15	303 x 128	60HP	38-39106
20,32 (4 HP)	21	425 x 128	84HP	38-39108

Board specification

Copper clad Epoxy glass board	BS4584
Nominal thickness	2,4mm
Copper thickness outer layers	38 μ m
Plated copper	37 μ m
Tin lead	5 μ m
Total	80 μ m
Copper thickness inner layers	38 μ m

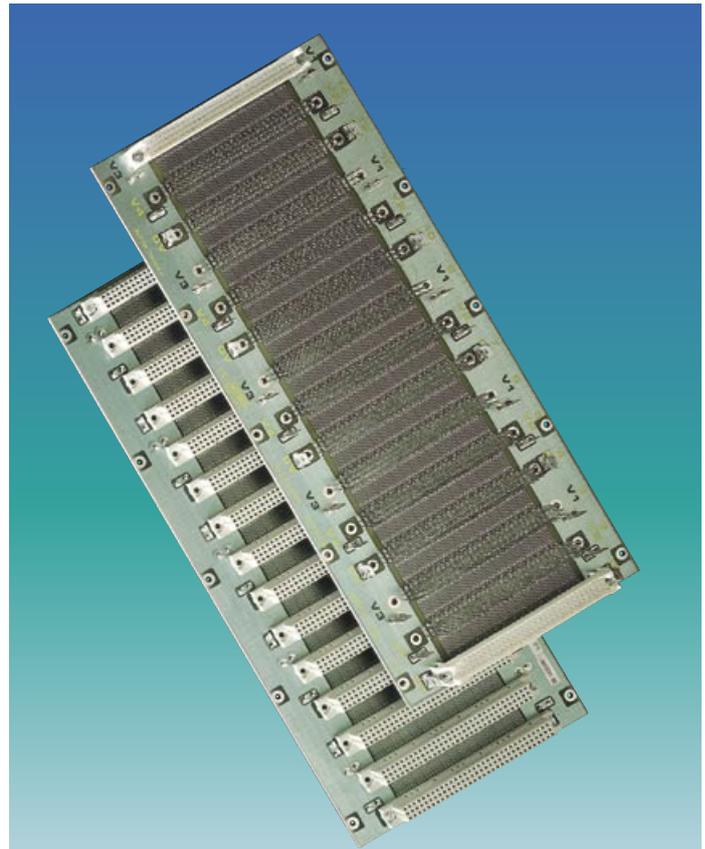
Note: bare boards are UL 94 V-0 recognised components file number E 116551. Bare boards are approved to BS9762.

Characteristic impedance

The impedance of signal layers to the 0V ground plane with the signal track width of 0,38mm which gives a theoretical impedance of 100 Ω with a Z_0 tolerance of $\pm 5\%$.

Note: $Z_0 = 100\Omega \pm 5\%$ theoretical impedance excluding holes in the board
 $Z_0 =$ approximately 80 Ω including connector holes in backplane
 $Z_0 =$ approximately 20 Ω fully loaded with boards

Note: Manufactured under licence from University College, London



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