

PASSIVE BACKPLANES

- **4 layer PCB with ground and power planes for reduced noise and low power supply impedance**
- **Standard PC motherboard P8/P9 power connectors**
- **Two keyboard headers**
- **LED ±5V and ±12V power indicators for easy fault diagnosis**
- **Heavy duty screw terminals for upgraded power supplies**
- **Termination resistors fitted for high speed systems**
- **50,000 hours MTBF**
- **Meets UL, CSA and TUV safety**
- **Meets FCC class A for EMI**
- **All PCI backplanes are PICMG compliant**
- **New range of PCI/ISA multiple segment backplanes run two or four CPU's on same board**
- **ISA backplanes can be modified to run multiple processors on same board**
- **New PCI bridge yielding 12 PCI slots on one backplane**

The MiTac range of passive backplanes provide 4 to 20 ISA or mixed ISA & PCI slots. Each board maintains full IBM PC/AT compatibility, all the mixed ISA/PCI boards are fully PICMG compliant. In addition they have been constructed with the industrial environment in mind.

Standard and heavy duty power

As you would expect each backplane has the usual P8/P9 power connectors on board so a standard PC power supply can be used unmodified.

For industrial environments where several backplanes may need to share one power source, or upgraded power supplies with non standard connectors are used, the backplanes have heavy duty screw terminals for all rails and ground.

LED power rail checking

On board LEDs indicate the status of each power rail so a quick visual check is all that is needed to verify that the power supply is functioning correctly.

DESCRIPTION	PRODUCT CODE
MBP-204 4 slot passive ISA backplane	909 869 31
MBP-206 6 slot passive ISA backplane	909 654 63
MBP-208 8 slot passive ISA backplane	909 654 64

Multiple processor support

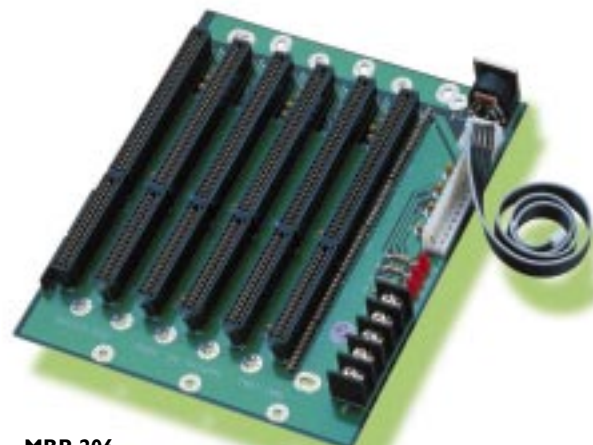
A unique feature of this range is the ability to support more than one computer system.

The PCBs are marked with areas which can be carefully cut to separate areas of the backplane. This allows 2 single board PCs to be installed, operating independently but sharing the same power supply. The segmentation of the backplane does not have to be symmetrical either; MBP-206 for example can be 1 and 5, 2 and 4 or 3 and 3 slots.

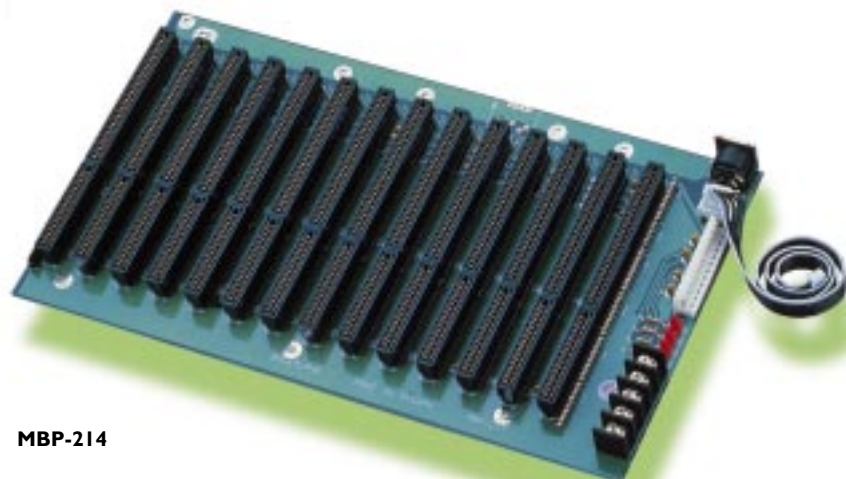
Most of these backplanes are standard fitting in the Mitac industrial chassis in the following pages.

SPECIFICATION

Size	MBP-204 170x90mm MBP-206 186x159mm MBP-208 181x 224mm MBP-212 181x281mm
Temperature	0 to 60°C -20°C to 85°C storage
Humidity	5 to 95% non condensing
MTBF	50,000 hours
EMI	Meets FCC class A
Safety	Meets UL,TUV and CSA
Keyboard headers	2 (not on MBP-PCI-4)
Power connectors	P8/P9 and heavy duty screw terminals
Segmentation	Supported on all models, traced for termination resistors at both ends of the backplane, one set fitted as standard

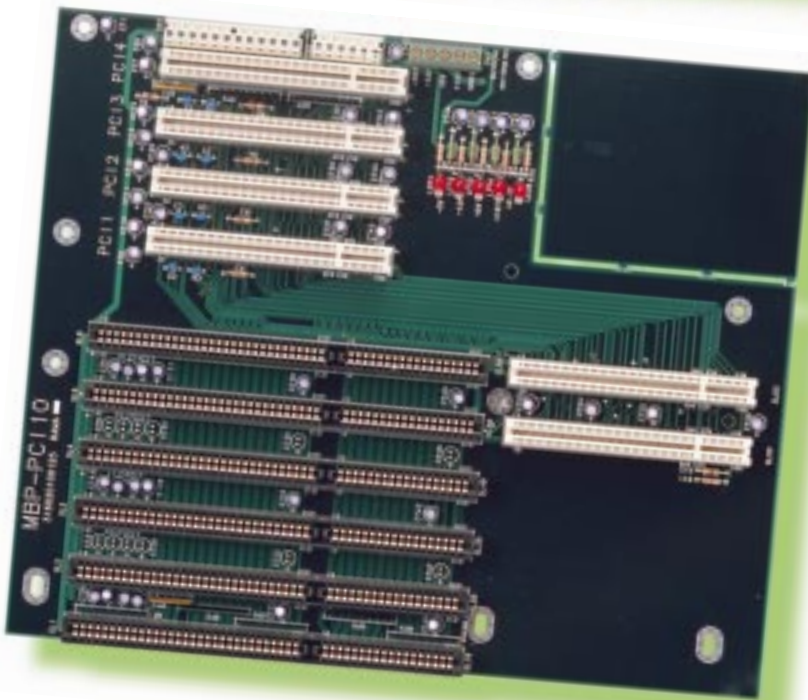


MBP-206

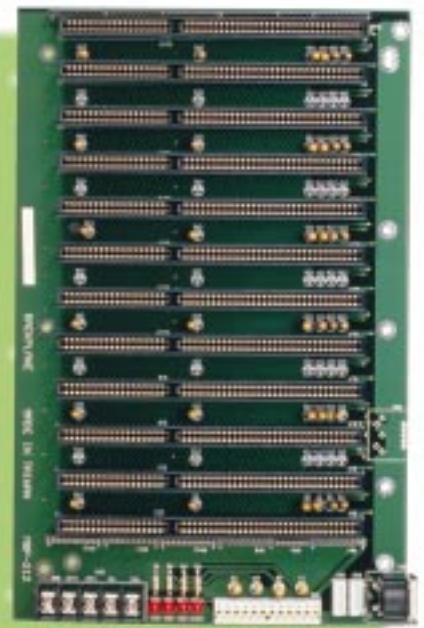


MBP-214

MBP-20



MBP-PCI-10



MBP-212

SPECIFICATION

Size	MBP-214 181x321mm MBP-220 181x415mm MBP-PCI-4 170x100mm MBP-PCI-6R 267x175mm MBP-PCI-10 264x221mm
Temperature	0 to 60°C -20°C to 85°C storage
Humidity	5 to 95% non condensing
MTBF	50,000 hours
EMI	Meets FCC class A
Safety	Meets UL, TUV and CSA
Keyboard headers	2 (not on MBP-PCI-4)
Power connectors	P8/P9 and heavy duty screw terminals
Segmentation	Supported on all models, traced for termination resistors at both ends of the backplane, one set fitted as standard

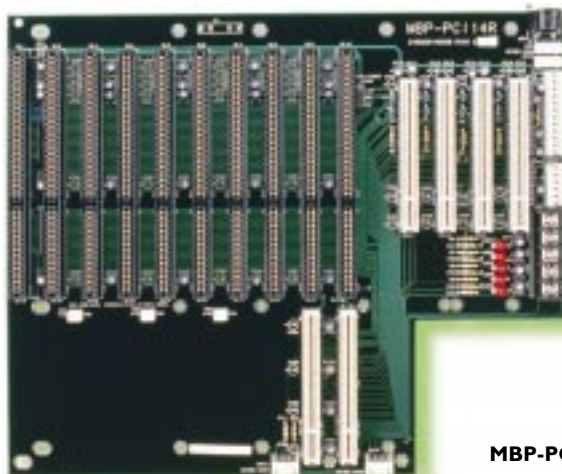


MBP-PCI-4

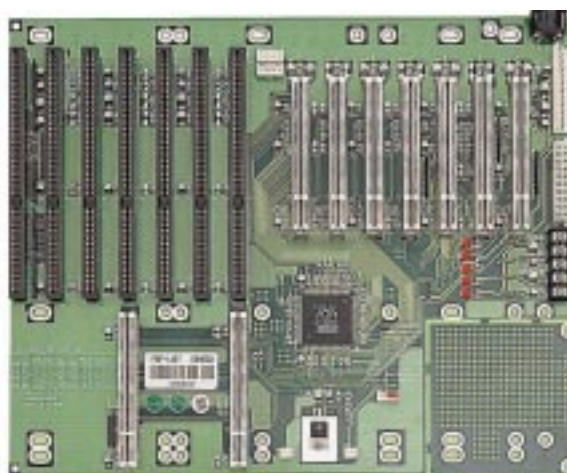
DESCRIPTION	PRODUCT CODE
MPB-212 12 slot passive ISA backplane	909 654 65
MBP-214 14 slot passive ISA backplane	909 654 66
MBP-220 20 slot passive ISA backplane	909 654 67

MBP-PCI-4 4 slot passive PCI backplane	909 760 79
MBP-PCI-6R 3 ISA/2 PCI passive backplane (PCIMG compliant)	909 654 46
MBP-PCI-10 10 slot ISA/PCI passive backplane	909 894 51
MBP-PCI-10 10-ATX PICMG 10 slot backplane	960 038 36

DESCRIPTION	PRODUCT CODE
MBP-PCI-13L 7 ISA/4 PCI passive backplane (PICMG compliant)	909 654 48
MBP-PCI-13L-ATX PICMG 7ISA/4PCI passive backplane with ATX power connector	960 038 35
MBP-PCI-14R 8 ISA/4 PCI passive backplane (PICMG compliant)	909 654 47
MBP-PCI-14R-ATX PICMG 8ISA/4 PCI passive backplane with ATX power connector	960 038 17
MBP-PCI-20 14 ISA/4 PCI passive backplane (PICMG compliant)	909 655 65
NBP 1404 9ISA/4 PCI passive backplane (PICMG compliant)	909 935 56
PBP-14A7 14 slot active backplane 5 ISA/7 PCI	909 888 59



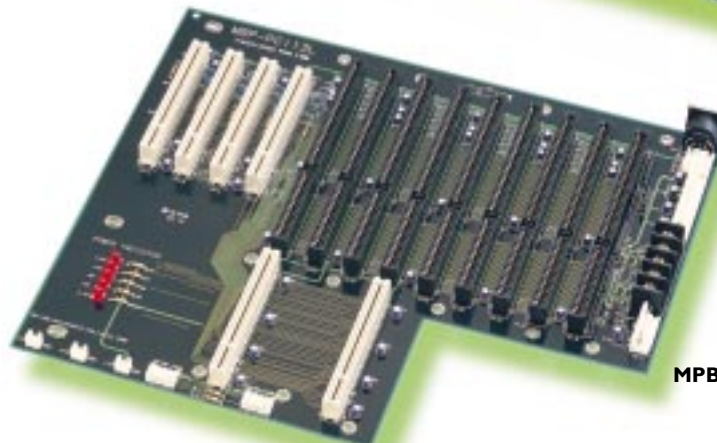
MBP-PCI-14R



PBP-14A7



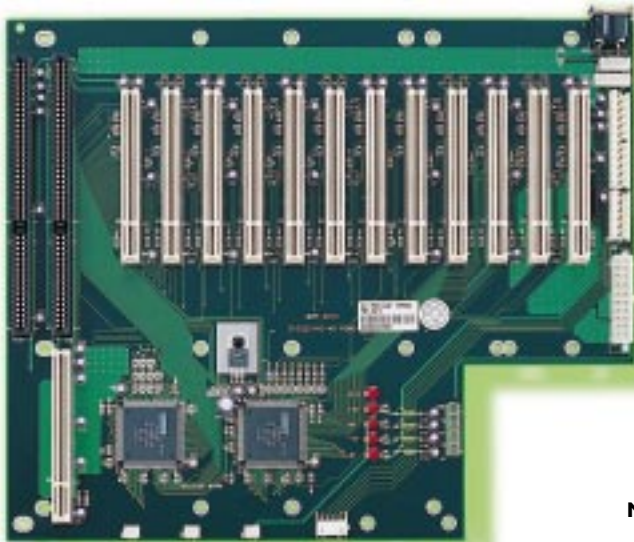
MBP-PCI-20



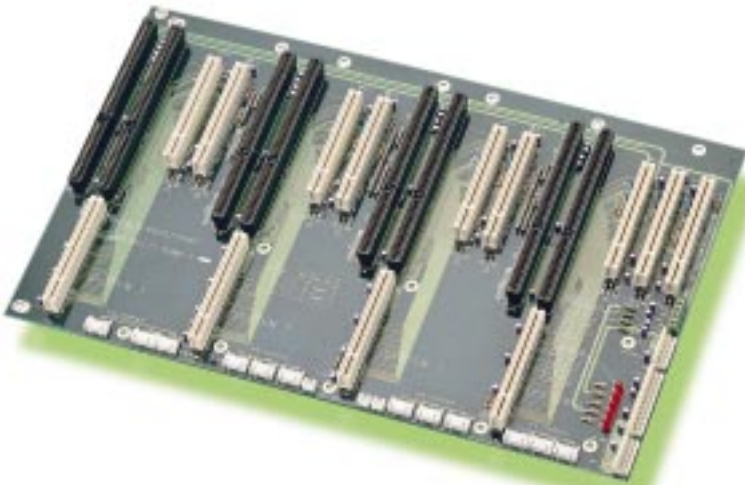
MPB-PCI-13L

SPECIFICATION

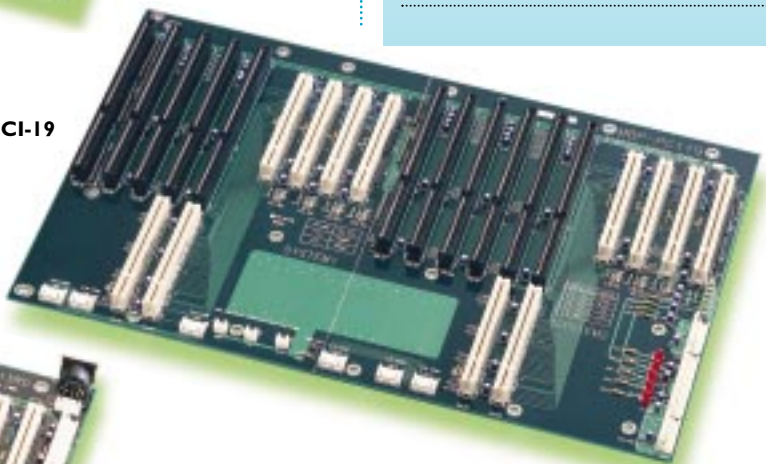
Size	MBP-PCI-13L 262x316mm MBP-PCI-14R 265x316mm MBP-PCI-20 262x426mm NBP 1404-260x315mm PBP-14A7 257x317mm
Temperature	0 to 60°C -20°C to 85°C storage
Humidity	5 to 95% non condensing
MTBF	50,000 hours
EMI	Meets FCC class A
Safety	Meets UL,TUV and CSA
Keyboard headers	2 (not on MBP-PCI-4)
Power connectors	P8/P9 and heavy duty screw terminals
Segmentation	Supported on all models, traced for termination resistors at both ends of the backplane, one set fitted as standard



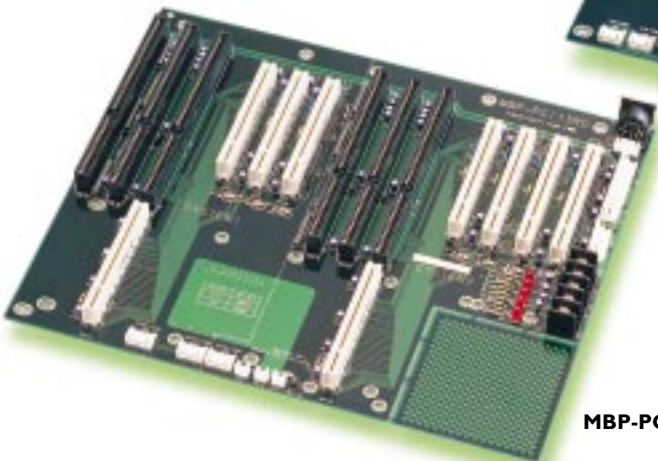
MBP-301C



MBP-PCI-17



MBP-PCI-19

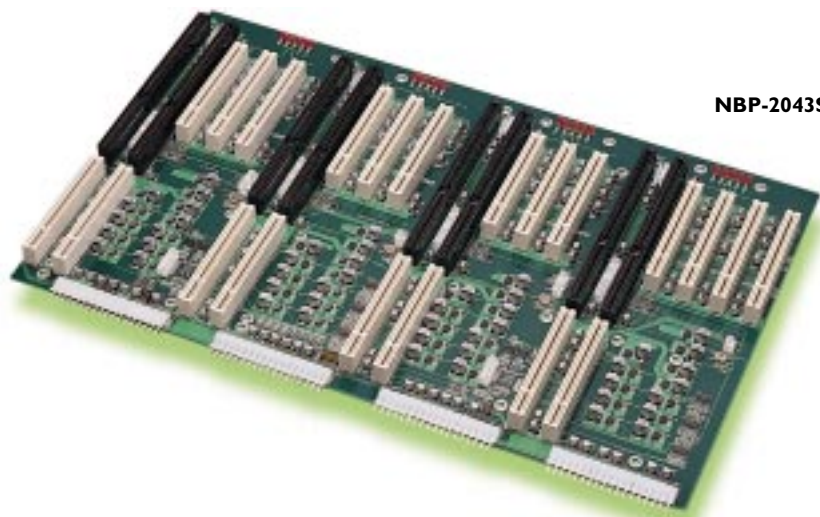


MBP-PCI-13-RD

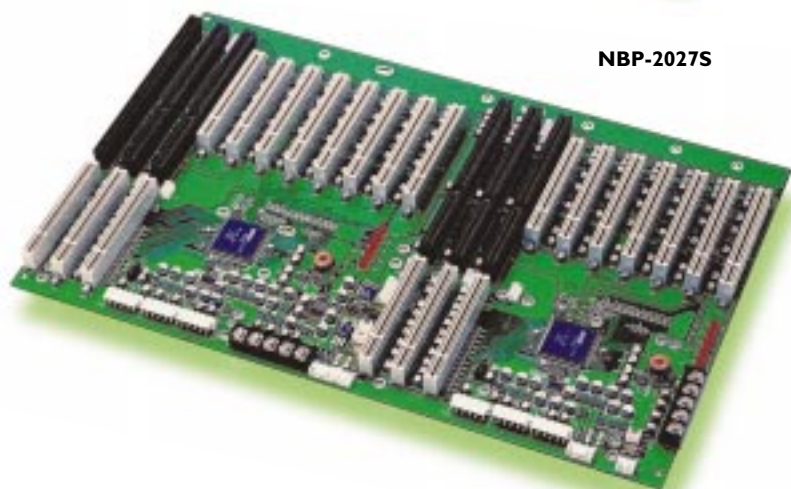
DESCRIPTION	PRODUCT CODE
MBP-301C active backplane with 12 PCI and 2 CPU slots (PICMG compliant)	909 934 84
MBP-PCI-13RD dual segment passive backplane (PICMG compliant)	909 756 58
MBP-PCI-17 4 segment ISA/PCI passive backplane (PICMG compliant)	909 756 60
MBP-PCI-19 dual segment passive backplane (PICMG compliant)	909 756 57

SPECIFICATION

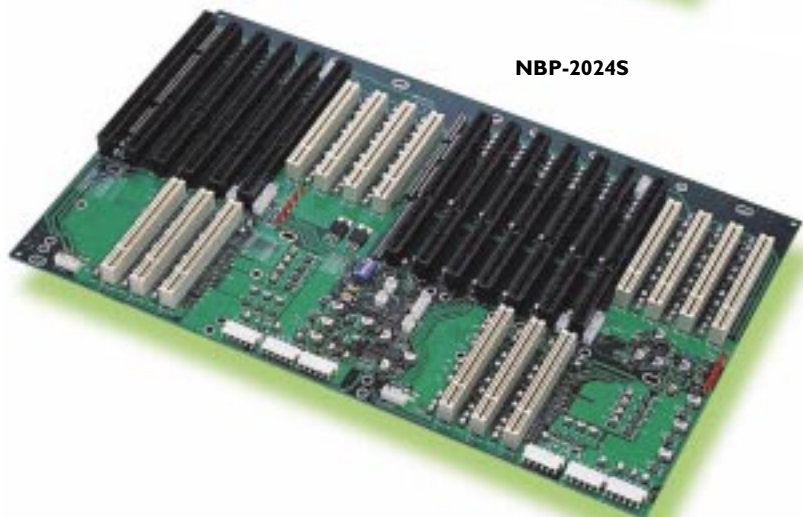
Size	MBP-MPCI-13 265x316mm MBP-PCI-13RD 262x316mm MBP-PCI-17 262x426mm MBP-PCI-19 262x426mm
Temperature	0 to 60°C -20°C to 85°C storage
Humidity	5 to 95% non condensing
MTBF	50,000 hours
EMI	Meets FCC class A
Safety	Meets UL,TUV and CSA
Keyboard headers	2 (not on MBP-PCI-4)
Power connectors	P8/P9 and heavy duty screw terminals
Segmentation	Supported on all models, traced for termination resistors at both ends of the backplane, one set fitted as standard



NBP-2043S



NBP-2027S



NBP-2024S



MBP-3217

DESCRIPTION	PRODUCT CODE
MBP-3217 active backplane with 7 slots, one PICMG CPU slot and one PCI CPU slot	909 934 83
NBP-2024S dual segment passive backplane each with 4 PCI, 4/3 ISA and 3 CPU slots with independent power	909 934 16
NBP-2027S dual segment active backplane with 7 PCI and 3 CPU slots with independent power	909 934 17
NBP 2043S quad segment passive backplane with 3 PCI and 2 CPU slots with independent power	909 934 15

SPECIFICATION

Size	NBP-2043S 415x270mm NBP-2027S 415x268mm NBP-2024S 415x268mm MBP-3217 264x224mm
Temperature	0 to 60°C operating -20°C to 80°C storage
Humidity	10 to 90% non condensing
Safety	CE
Keyboard headers	NBP 2043S - 4 sets NBP 2027S/2024S - 2 sets MBP 3217 - 2 sets
Power connectors	NBP 2027S screw terminal & ATX MBP 3217 screw terminal & P8/P9 NBP 2043S/2024S ATX
Compliance	CE EMC