

3M™ Connectors for PC104 Plus Embedded Systems Applications

3M is offering Connectors for PC104 Plus Embedded Systems Applications as an addition to our embedded computing product line. These connectors conform to PC/104 Embedded-PC Modules. 3M is offering 2 mm J3/P3 32-bit module in both press-fit and solder tail versions. J1/P1 and J2/P2 connectors are also available in the PC104 product line on Customer Drawings TS-2392 and TS-2395. The addition of these products creates a full portfolio of options for customers' high-speed, high-performance requirements.

Features and Benefits

3M PC104+ Connectors

Connector for PC104 applications with support for PCI bus

2 mm pitch connectors for high density applications

Available in solder tail

Pin-and-socket connectors; rugged and reliable 120-contact male/female headers

Simple contact design to accommodate many standoff heights

PC104+ Standard Benefits

PC104 with support for PCI bus

Compact form factor and stacked design to meet tight space requirements of embedded applications

Self-stacking bus eliminates the need and cost and bulk of backplanes and card cages

Relaxed bus drive (6 mA) lowers power consumption (to 1-2 watts per module) and minimizes component count

Stack-through design is more rugged against shock and vibration effects

Target Markets and Applications

Industrial control and factory automation

Military/aerospace

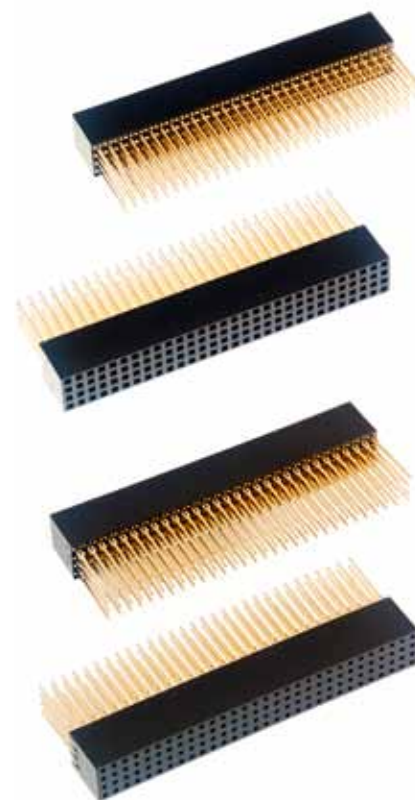
Medical

Transportation

Gaming

The following parts are available as part of the 3M backplane connector product family:

Part Number	Description	Pitch	Customer Drawing
5P03-2021-XX	PC104+ Compliant Stack-Thru, 120-Pin, Press-Fit Module	2 mm	TS-2391
5P03-2012-XX	PC104+ Compliant Non-Stack-Thru, 120-Pin, Solder Tail Module	2 mm	TS-2391
5P03-2011-XX	PC104+ Compliant Non-Stack-Thru, 120-Pin, Press-Fit Module	2 mm	TS-2391

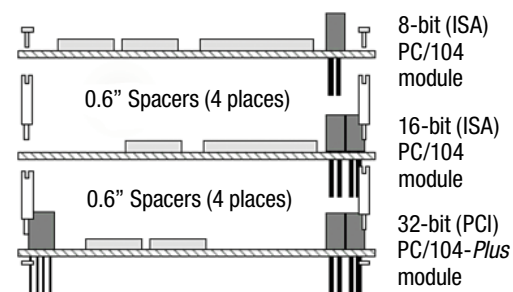
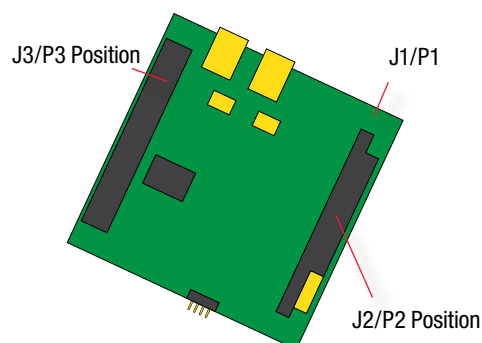


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Product Specifications

Specifications	Product	Available upon request
	Signal Integrity data	Available upon request
Materials	Contacts	Phosphor bronze
	Platings	See TS-2391
	Housings	Polyester nylon-6T (UL 94V-0)
Environmental	Operating Temperature	-40°C to +105°C
	Max Processing Temp	230°C for 60 seconds 260°C for 10 seconds
Electrical	Current Rating	2 AMPS
	Insulation Resistance	5,000 Megaohms Min
	Contact Resistance	20 Milliohms Max
	Withstanding Voltage	500 Vac



Additional Information

	J1/P1 Connector	J2/P2 Connector	J3/P3 Connector
Module Type	PC/104 module	PC/104 module	PC/104-Plus module
Bus Architecture	8-bit (ISA PC/AT)	16-bit (ISA PC/AT)	32-bit (PCI bus)
Description	2 rows of 40 pins - 0.100" (2.54 mm) pitch	2 rows of 64 pins - 0.100" (2.54 mm) pitch	4 rows of 120 pins - 2.00 mm pitch
Options	Stack-through and non-stack-through options	Stack-through and non-stack-through options	Stack-through and non-stack-through options
Customer Drawings	TS-2392, TS-2395	TS-2392, TS-2395	TS-2391
	Max Processing Temp	230°C for 60 seconds 260°C for 10 seconds	

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