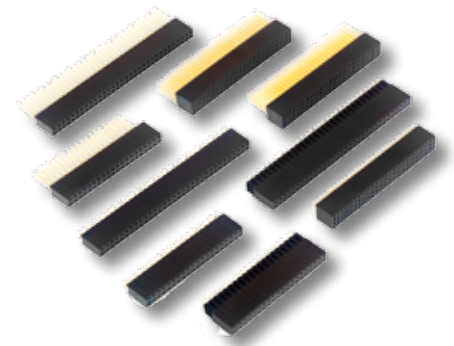


# 3M™ Connectors for PC104 Embedded Systems Applications

3M is offering Connectors for PC104 Embedded Systems Applications as an addition to our embedded computing product line. These connectors conform to PC/104 Embedded-PC Modules. 3M is offering both of the primary connectors specified by PC/104: 8-bit J1/P1 and 16-bit J2/P2 in both stack-through and non-stack-through options. J3/P3 connectors are also available in the PC104 Plus product line on Customer Drawing TS-2391.

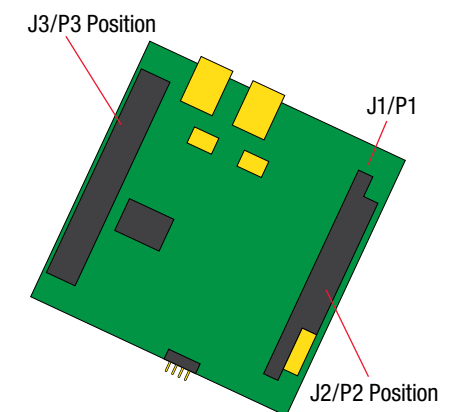
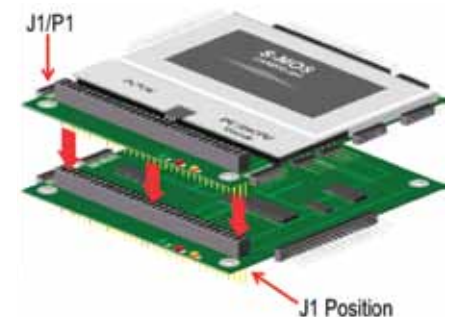


3M™ Connectors for PC104 Embedded Systems Applications

| Features and Benefits   |  |
|---|--|
| PC104 Standard Benefits   | 3M PC104 Connectors  |
| Compact form factor and stacked design to meet tight space requirements of embedded applications          | Standard PC104 pin-and-socket connectors                   |
| Self-stacking bus eliminates the need, cost and bulk of backplanes and card cages                         | Rugged and reliable 64- and 40-contact male/female headers |
| Relaxed bus drive (6 mA) lowers power consumption (to 1-2 watts per module) and minimizes component count | Simple contact design to accommodate many standoff heights |
| Stack-through design is more rugged against shock and vibration effects                                   | Available in solder tail                                   |

| Target Markets and Applications           |
|---|
| Industrial control and factory automation |
| Military/aerospace                        |
| Medical                                   |
| Transportation                            |
| Gaming                                    |

| Product Specifications |                       |  |
|------------------------|-----------------------|--|
| <b>Specifications</b>  | Product               | Available upon request                             |
|                        | Signal Integrity data | Available upon request                             |
| <b>Materials</b>       | Contacts              | Phosphor bronze                                    |
|                        | Platings              | See Customer Drawings TS-2392 and TS-2395          |
|                        | Housings              | Polyester Nylon-6T (UL 94V-0)                      |
| <b>Environmental</b>   | Operating Temperature | -40°C to +105°C (+85°C for bus compatible version) |
|                        | Max Processing Temp   | 230°C for 60 seconds<br>260°C for 10 seconds       |
| <b>Electrical</b>      | Current Rating        | 3 AMPS   |
|                        | Insulation Resistance | 5,000 Megaohms Min                                 |
|                        | Contact Resistance    | 20 Milliohms Max                                   |
|                        | Withstanding Voltage  | 1000 Vac   |



# 3M™ Connectors for PC104 Embedded Systems Applications

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

| Part Number  | Description   | Customer Drawing |
|--------------|---|------------------|
| 4P01-2A02-XX | PC104 Compliant Non-Stack-Thru, 40-Pin, Solder Tail Module, 11.3 to 19 mm Standoff      | TS-2392          |
| 4P01-2B02-XX | PC104 Bus Compatible Stack-Thru, 40-Pin, Solder Tail Module, 11.3 to 19 mm Standoff     | TS-2392          |
| 4P01-2C02-XX | PC104 Compliant Stack-Thru, 40-Pin, Solder Tail Module, 11.3 to 19 mm Standoff          | TS-2392          |
| 4P01-2D02-XX | PC104 Compliant Stack-Thru, 40-Pin, Solder Tail Module, 11.3 to 19 mm Standoff          | TS-2392          |
| 4P02-2A02-XX | PC104 Compliant Non-Stack-Thru, 64-Pin, Solder Tail Module, 11.3 to 19 mm Standoff      | TS-2392          |
| 4P02-2B02-XX | PC104 Bus Compatible Stack-Thru, 64-Pin, Solder Tail Module, 11.3 to 19 mm Standoff     | TS-2392          |
| 4P02-2C02-XX | PC104 Compliant Stack-Thru, 64-Pin, Solder Tail Module, 11.3 to 19 mm Standoff          | TS-2392          |
| 4P02-2D02-XX | PC104 Compliant Stack-Thru, 64-Pin, Solder Tail Module, 11.3 to 19 mm Standoff          | TS-2392          |
| 4P01-2J02-XX | PC104 Bus Compatible Non-Stack-Thru, 40-Pin, Solder Tail Module, >19.9 mm Standoff      | TS-2393          |
| 4P01-2K02-XX | PC104 Bus Compatible Non-Stack-Thru, 40-Pin, Solder Tail Module, >19.9 mm Standoff      | TS-2393          |
| 4P02-2J02-XX | PC104 Bus Compatible Non-Stack-Thru, 64-Pin, Solder Tail Module, >19.9 mm Standoff      | TS-2393          |
| 4P02-2K02-XX | PC104 Bus Compatible Non-Stack-Thru, 64-Pin, Solder Tail Module, >19.9 mm Standoff      | TS-2393          |
| 4P01-2E02-XX | PC104 Bus Compatible Non-Stack-Thru, 40-Pin, Solder Tail Module, 19.3 to 20 mm Standoff | TS-2394          |
| 4P01-2F02-XX | PC104 Bus Compatible Non-Stack-Thru, 40-Pin, Solder Tail Module, 19.3 to 20 mm Standoff | TS-2394          |
| 4P01-2G02-XX | PC104 Bus Compatible Non-Stack-Thru, 40-Pin, Solder Tail Module, 19.3 to 20 mm Standoff | TS-2394          |
| 4P01-2H02-XX | PC104 Bus Compatible Stack-Thru, 40-Pin, Solder Tail Module, 19.3 to 20 mm Standoff     | TS-2394          |
| 4P02-2E02-XX | PC104 Bus Compatible Non-Stack-Thru, 64-Pin, Solder Tail Module, 19.3 to 20 mm Standoff | TS-2394          |
| 4P02-2F02-XX | PC104 Bus Compatible Non-Stack-Thru, 64-Pin, Solder Tail Module, 19.3 to 20 mm Standoff | TS-2394          |
| 4P02-2G02-XX | PC104 Bus Compatible Non-Stack-Thru, 64-Pin, Solder Tail Module, 19.3 to 20 mm Standoff | TS-2394          |
| 4P02-2H02-XX | PC104 Bus Compatible Stack-Thru, 64-Pin, Solder Tail Module, 19.3 to 20 mm Standoff     | TS-2394          |
| 4P01-2L02-XX | PC104 Bus Compatible Non-Stack-Thru, 40-Pin, Solder Tail Module, >27.3 mm Standoff      | TS-2395          |
| 4P02-2L02-XX | PC104 Bus Compatible Non-Stack-Thru, 64-Pin, Solder Tail Module, >27.3 mm Standoff      | TS-2395          |

## Additional Information

|                          | J1/P1 Connector                             | J2/P2 Connector                             | J3/P3 Connector                             |
|--------------------------|---|---|---|
| <b>Type of module</b>    | PC/104 module                               | PC/104 module                               | PC/104-Plus module                          |
| <b>Bus Architecture</b>  | 8-bit (ISA PC/AT)                           | 16-bit (ISA PC/AT)                          | 32-bit (PCI bus)                            |
| <b>Description</b>       | 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          |
| <b>Options</b>           | Stack-through and non-stack-through options | Stack-through and non-stack-through options | Stack-through and non-stack-through options |
| <b>Customer Drawings</b> | TS-2392, TS-2395                            | TS-2392, TS-2395                            | TS-2391                                     |

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