PC/104, PC/104 Plus Specification

- Industry Standard bus connection systems, typically used on embedded PC applications.
- Designed for Board-To-Board stacking with a common bus.

PC/104 Connectors - 2.54mm pitch (M20)

Materials		Materials	
Mouldings: Contacts: Finish:	High Temperature Plastic, UL94V-0 Phosphor Bronze Gold	Mouldings: Contacts M22-602:	High Temperature Plastic, UL94V-0 Brass
		Others:	Phosphor Bronze
► Electrical		Finish:	See order code
Current Solder Tail:	3A max	: Electrical	
Press-Fit Tail:	1A max	Current:	1A max
Working voltage:	12V DC	Working voltage:	12V DC
Voltage proof:	1,000V AC	Voltage proof:	800V AC
Contact resistance:	30mΩ max	Contact resistance:	30mΩ max
Insulation resistance:	5,000MΩ min	Insulation resistance:	5,000MΩ min
: Mechanical		: Mechanical	
Durability Mating: Press-fit: Insertion force (max):	10 operations 3 operations 2.0N per contact	Durability: Insertion force (max): Withdrawal force (min):	10 operations 2.0N per contact 0.3N per contact
Withdrawal force (min):	0.25N per contact	Environmental	
Insertion force to board (max) Press-Fit:	80N per contact	Temperature range:	-55°C to +105°C

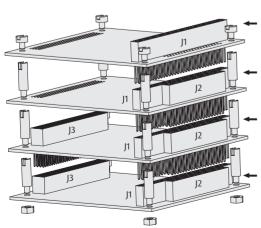
PC/104 Plus - 2.00mm pitch (M22)

Environmental

Temperature range:

-55°C to +105°C

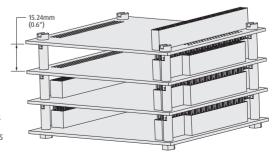
Typical PC/104 & PC/104-Plus Module Stack



8-bit Module – comprising: J1 = 32+32-contacts Stackthrough: M20-6103245 or M20-6153205

- 16-bit Module comprising: J1 = 32+32-contacts Stackthrough: M20-6103245 or M20-6153205
- J2 = 20+20-contacts Stackthrough: M20-6102045 or M20-6152005
- PCI Bus Module comprising:
- J1 = 32+32-contacts Stackthrough: M20-6103245 or M20-6153205
- J2 = 20+20-contacts Stackthrough: M20-6102045 or M20-6152005
- J3 = 120-contacts Stackthrough: M22-6003005
- PCI Bus Module comprising: J1 = 32+32-contacts Non-stackthrough: M20-6113245
- J1 = 32+32-contacts Non-stackthrough: M20-611324 or M20-6163205
- J2 = 20+20-contacts Non-stackthrough: M20-6112045
- or M20-6162005 J3 = 120-contacts Non-stackthrough: M22-6013005

Assembled PC/104 stack (4 Modules)



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All dimensions in mm.

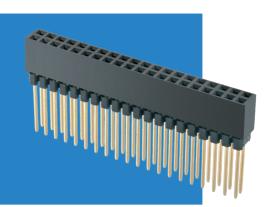
PC/104 Connectors

2.54mm Pitch Vertical Bus Connectors

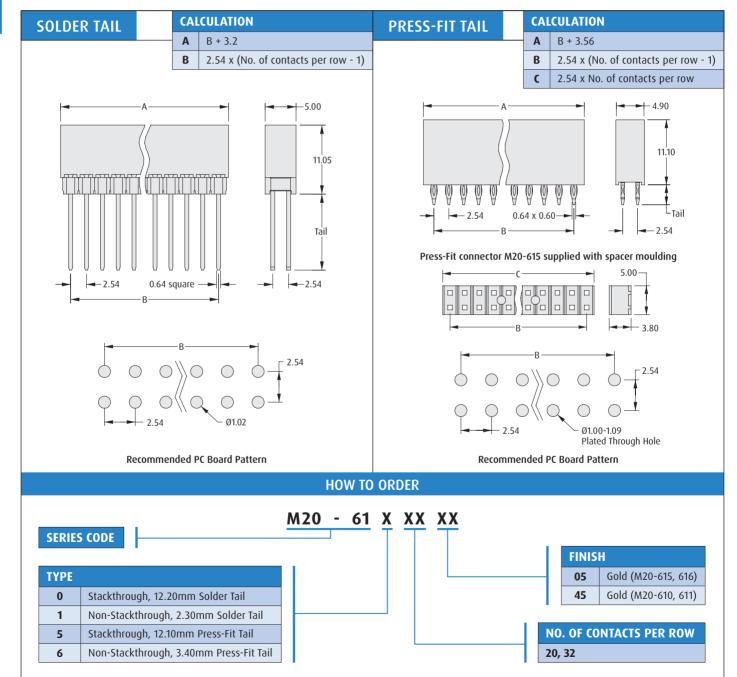
32+32 contacts supports an 8-bit system.

PC/104, PC/104 PLUS

- 20+20 contacts combined with 32+32 contacts supports a 16-bit system.
- Press-fit connectors can be assembled direct to the PCB without soldering, using plated-through holes.
- Stackthrough connectors act as both male and female connectors.



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All dimensions in mm.

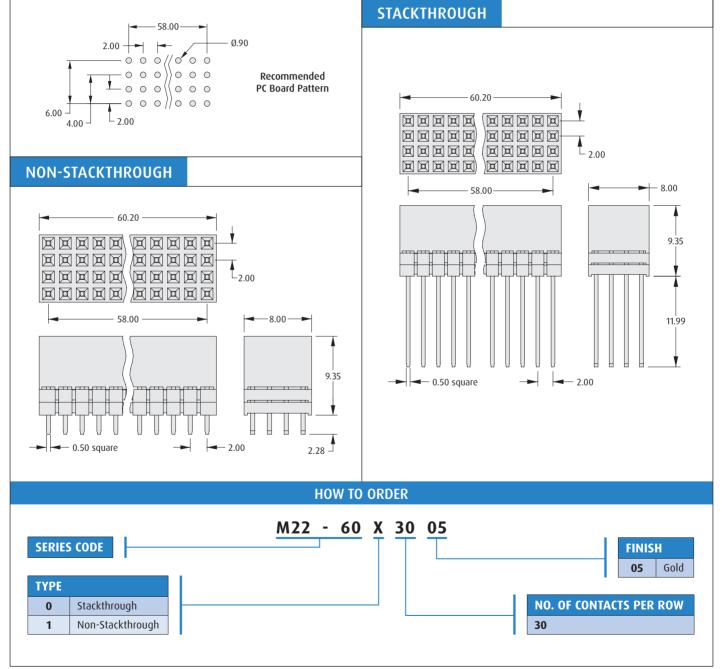
PC/104 Plus Connectors

2mm Pitch Vertical Bus Connectors

- Supports PCI bus.
- Stackthrough connectors act as both male and female connectors.
- Available in Solder tail configuration.



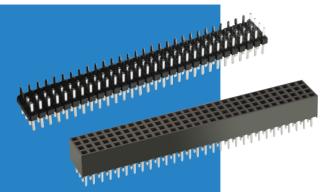
IARWin

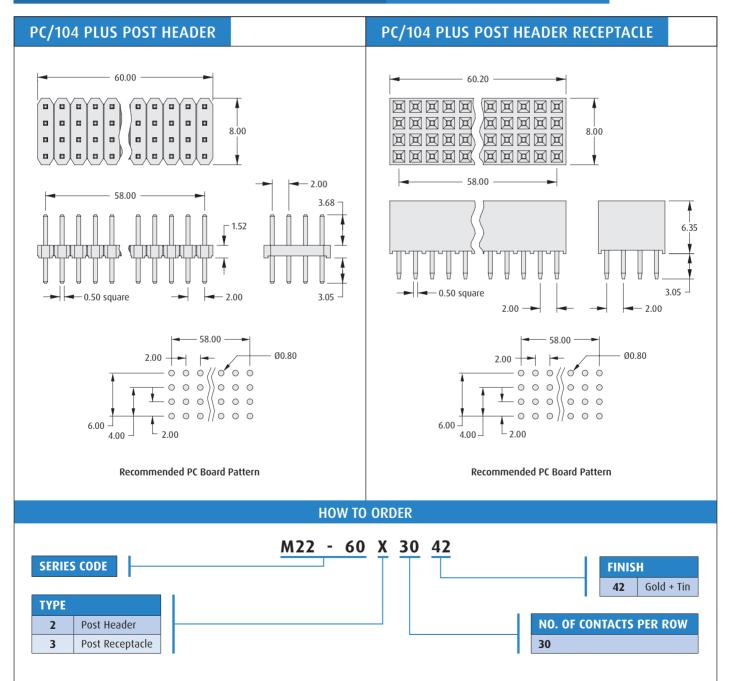


PC/104 Plus Connectors

2mm Pitch Accessory Connectors

Accessory connectors for use with the PC/104 Plus range.







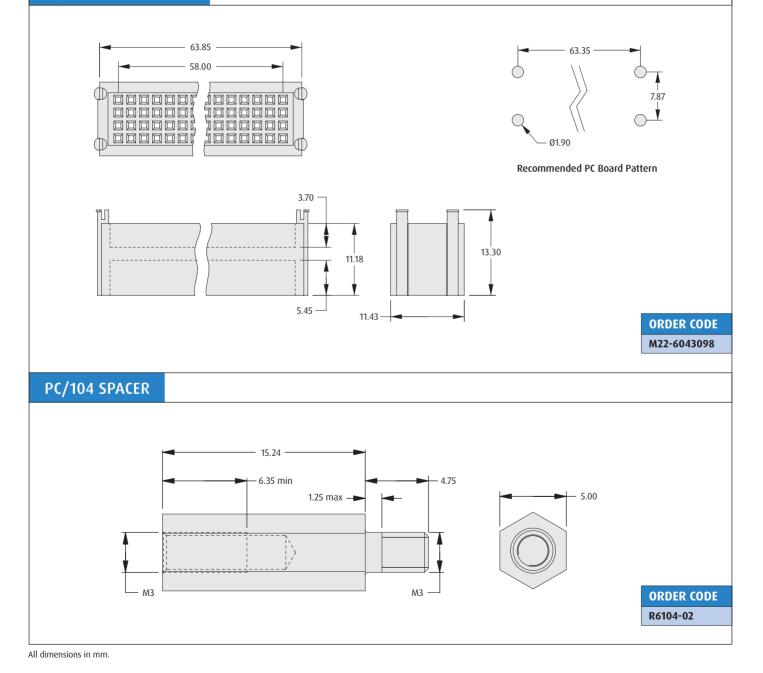
All dimensions in mm.

PC/104 Plus Connectors

Accessories

- Accessory components for use with the PC/104 Plus range.
- The shroud is used to protect the long tails of the Stackthrough connector from the previous page, and ensures alignment with a mating connector. It self retains on the underside of the PCB after the Stackthrough connector has been soldered to the PCB, by latching into the four mounting holes.

PC/104 PLUS SHROUD



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