

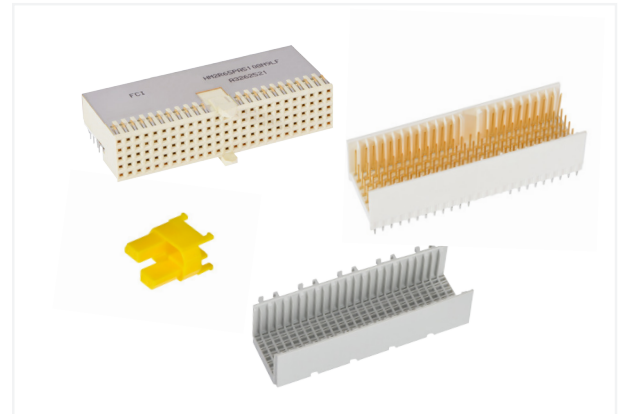
MILLIPACS® COMPACT PCI

OVERVIEW

Millipacs® 2mm Hard Metric connectors fulfill the interconnection requirement of the Compact PCI bus architecture.

Compact PCI Millipacs connectors are designed in accordance to IEC 61076-4-101.

Millipacs Hard Metric Connectors covers the entire range of 2mm connectors required by Compact PCI Board. Vertical headers, right angle receptacles, back panel shrouds and color coding keys are offered.



FEATURES

- Modular and Scalable by 25mm to 50mm
- Three levels of mating contact lengths and different terminal lengths for headers
- Multipurpose center, guiding feature and location peg
- Two outer rows
- Different length contacts at any position for headers
- 2-beam tulip contact for receptacles
- Stamped contacts for receptacles
- Blank position feasibility for receptacles
- Shroud retention by forced-fit over the long tails of vertical headers for RPU applications
- Stand-off for different shroud heights
- Well-defined color for coding keys

BENEFITS

- Standard Modular length, without any loss of position
- Suitable for various applications with different PCB thickness, rear plug-up (RPU) applications and hot swapping
- Easy guiding and location of connectors
- Shielding
- Custom loading
- Contact reliability
- Accurate true positioning
- Custom loading
- No mounting hardware
- Flexibility on backplane thickness
- Easy identification





TECHNICAL INFORMATION

MATERIALS

- Insulator Material: Thermoplastic UL-94V0 for Headers & High Temp Plastic for Receptacles
- Contact Material: Copper Alloy
- Contact Plating Material: Gold or Palladium-Nickel on mating areas and Tin over Ni on press-fit or terminal area

ELECTRICAL PERFORMANCES

- Operating Current: 1.5 A at 20°C
1.0 A at 70°C
- Test Voltage: 750 Vrms
- Contact Resistance: 20 mΩ max.
- Insulation Resistance: 10⁴ MΩ min.

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

MECHANICAL PERFORMANCE

- Mating Force: 0.75 N max. per contact pair
- Withdrawal Force: 0.15 N min. per contact pair
- Hertz Stress: 200 Kpsi min
- Misalignment: Longitudinal ±2.0 mm
Transversal ±2.5 mm
- Inclination: ±2.0°

APPROVALS AND CERTIFICATIONS

- Designed in accordance with IEC 917 and IEC 61076-4-101
- Fits DIN 43356 and IEEE 1301 Hard Metric Practice
- Telcordia GR-1217-CORE standards
- UL and CSA recognized

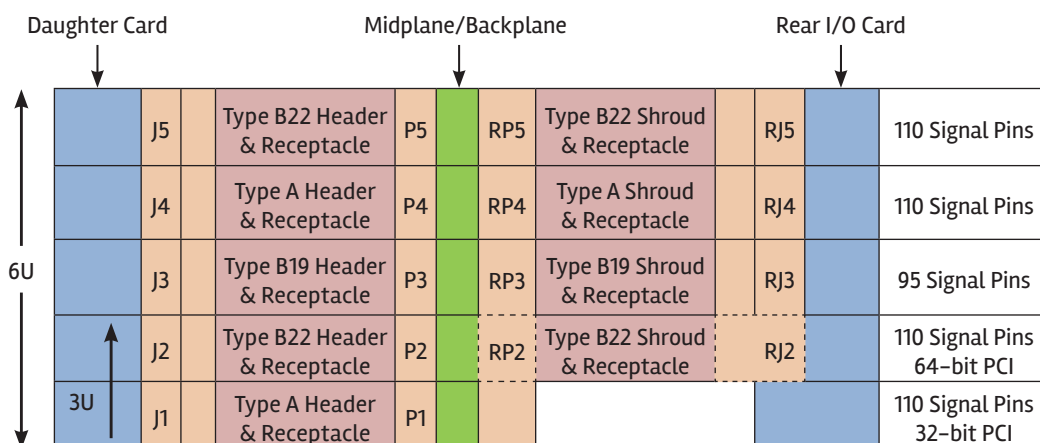
PACKAGING

- Tray

TARGET MARKETS/APPLICATIONS

- Telecom & Data
- Industrial Automation & Instrumentation
- Transportation & Medical
- Military

COMPACT PCI PACKAGING APPLICATION



PART NUMBERS

Type	Part Number	Description	Pins	Compact PCI Backplane/Daughter Card Location
A	HM2R10PA5108N9LF	Right Angle Receptacle	110	J1, J4, RJ4
B22	HM2R70PA5108N9LF	Right Angle Receptacle	110	J2, RJ2, J5, RJ5
B19	HM2R71PA5108N9LF	Right Angle Receptacle	95	J3, RJ3, J0 (VME 64 ext), RJ0 (VME 64 ext)
A	HM2R10PACA39N9LF	Right Angle Receptacle	90	Comp Telephony
AB19	HM2R67PA5108N9LF	Right Angle Receptacle	95	RJ0, RJ3
AB22	HM2R66PA5108N9LF	Right Angle Receptacle	110	RJ2, RJ5
A	HM2P07PDG1A1N9LF	Vertical Header	110	P1, P4
A	HM2P07PME124GFLF	Vertical Header	110	P1, P4
A	HM2P07PN5114GFLF	Vertical Header	110	P1, P4
A	HM2P07PDU1A1N9LF	Vertical Header	110	P1 (Hot Swap)
B22	HM2P70PDE121N9LF	Vertical Header	110	P2, P5
B22	HM2P70PME124GFLF	Vertical Header	110	P2, P5
B22	HM2P70PN5114GFLF	Vertical Header	110	P2, P5
B22	HM2P70PME129GFLF	Vertical Header	110	P2, P5
B22	HM2P70PN511CGFLF	Vertical Header	110	P2, P5
B19	HM2P71PDE121N9LF	Vertical Header	95	P0, P3
B19	HM2P71PME124GFLF	Vertical Header	95	P0, P3
B19	HM2P71PN5114GFLF	Vertical Header	95	P0, P3
B19	HM2P71PME125GFLF	Vertical Header	95	P0, P3
B19	HM2P71PN5115GFLF	Vertical Header	95	P0, P3
A	HM2P07PDW145N9LF	Vertical Header	84	Comp Telephony
B22	HM2P70PMW1N5GFLF	Vertical Header	110	Comp Telephony
B22	HM2P70PMW1N9GFLF	Vertical Header	110	Comp Telephony
A	HM2H07P1XXLF	Shroud		RP4
B22	HM2H70P1XXLF	Shroud		RP2, RP5
B19	HM2H71P1XXLF	Shroud		RP3, RP0
AB22	HM2H66P1XXLF	Shroud		RP2, RP5
AB19	HM2H67P1XXLF	Shroud		RP3, RP0 (VME 64 Ext)
	HM2DK3456PLF	Coding key	Yellow	3.3V
	HM2DK1278RLF	Coding key	Yellow	3.3V
	HM2DK1567PLF	Coding key	Blue	5.0V
	HM2DK2348RLF	Coding key	Blue	5.0V
	HM2DK1248PLF	Coding key	Red	Comp Telephony
	HM2DK3567RLF	Coding key	Red	Comp Telephony