

3M™ Power Connectors for CompactPCI® Applications

3M is offering Power Connectors for CompactPCI Applications as an addition to our embedded computing product line. These connectors conform to PICMG® 2.11 R1.0 standard requirements. 3M will offer the backplane vertical socket and daughtercard right angle header with combined signal and power functionality.

(Note: The daughtercard vertical header is not being offered by 3M at this time.)



3M™ Power Connectors for CompactPCI® Applications

Features and Benefits

Designed to meet CompactPCI power interface specification PICMG 2.11 for zone 1 connector

Combines power and signal – 20 DC power contacts, 3 AC power contacts and 24 signal contacts

Eurocard form factors

Supports PICMG MicroTCA™ (AdvancedMC™ 1.0) specification

24 high-power contacts and 72 high-density signal contacts

Backplane and daughtercard versions

Provides redundant power and system management

Target Markets and Applications

Embedded PICMG 2.XX systems

Medical applications

Industrial control applications, railway

Instrumentation and control systems

Military/aerospace backplanes

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

Part Number	Description	Details	Customer Drawing	Mating Product
3P02-2001-XX	Power Backplane Female Connector, 47 Position	Press-Fit	TS-2370	3P01-200X-XX
3P02-2002-XX	Power Backplane Female Connector, 47 Position	Solder Tail	TS-2370	3P01-200X-XX
3P02-1001-XX	Power Backplane Female Connector, 38 Position	Press-Fit	TS-2372	3P01-100X-XX
3P02-1002-XX	Power Backplane Female Connector, 38 Position	Solder Tail	TS-2372	3P01-100X-XX
3P01-2002-XX	Power Right Angle Male Connector, 47 Position	Solder Tail	TS-2374	3P02-200X-XX
3P01-1002-XX	Power Right Angle Male Connector, 38 Position	Solder Tail	TS-2375	3P02-100X-XX



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Product Specifications

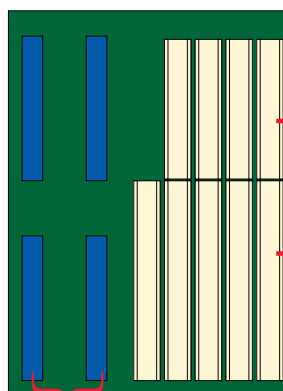
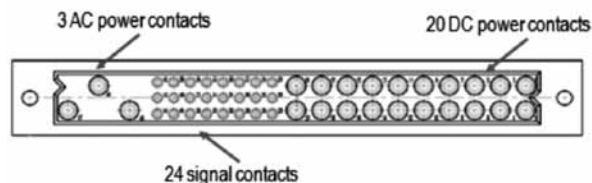
Specifications	Product	Available upon request
	Signal Integrity Data	Available upon request
Materials	Contacts	Copper alloy, gold plating
	Platings	0.76µm Min Au 0.34µm Min Au 0.08µm Min Au Finish (1.27µm Min Ni Undercoat)
	Housings	Glass filled polyester (PBT)
	Temperature Rating	-40°C to 105°C
Electrical	Current Rating	DC output power 1 thru 20: 16 AMPs Input power 45,45,47: 23 AMPs
	Insulation Resistance	10 ¹⁰ Ohms
	Initial Contact Resistance	Power contact: 0.7 milliohms max Signal contact: 4.0 milliohms max
	Voltage Proof	1-20: 1500 VRMS 21-44: 1000 VRMS 45-47: 3000 VRMS

Additional Information

CompactPCI utilizes standard eurocard dimensions.

It is defined for both 3U (100 mm by 160 mm) and 6U (160 mm x 233 mm) card sizes:

Anatomy



cPCI Female Power Connectors

3U Backplane



cPCI Female Power Connectors

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