

3M™ Power Connectors for ATCA® Applications

3M is offering Power Connectors for ACTA Applications as an addition to our embedded computing product line. These connectors conform to PICMG® 3.0 ATCA R2.0 standard requirements. 3M will offer Zone 1 ATCA right angle headers and backplane vertical sockets intended to interface between the ATCA backplane and front boards.

Features and Benefits

ATCA zone 1 power connector

Backplane right angle header and daughtercard vertical socket

Daughtercard vertical socket

Compliant to PICMG 3.0 R2.0 (AdvancedTCA) Specification

High conductivity, precision formed contacts

Selective plating in compliance with RoHS* requirements

Precision formed compliant pin offers excellent retention to provide a reliable connection

Target Markets and Applications

Designed for hot-swap applications

Telecom edge equipment

Wireless base stations

Communication equipment: switches, routers, cross-connects



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

Part Number	Description	Contact Positions	Customer Drawing
2P01-0100-XX	ATCA Power Right Angle Male Connector	34	TS-2376
2P01-0200-XX	ATCA Power Right Angle Male Connector	30, Except Pos.1-4	TS-2376
2P01-0300-XX	ATCA Power Right Angle Male Connector	22, Except Pos. 1-4, 17-24	TS-2376
2P02-0100-XX	ATCA Power Backplane Female Connector	34	TS-2378
2P02-0200-XX	ATCA Power Backplane Female Connector	30, Except Pos.1-4	TS-2378
2P02-0300-XX	ATCA Power Backplane Female Connector	22, Except Pos. 1-4, 17-24	TS-2378



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Product Specifications

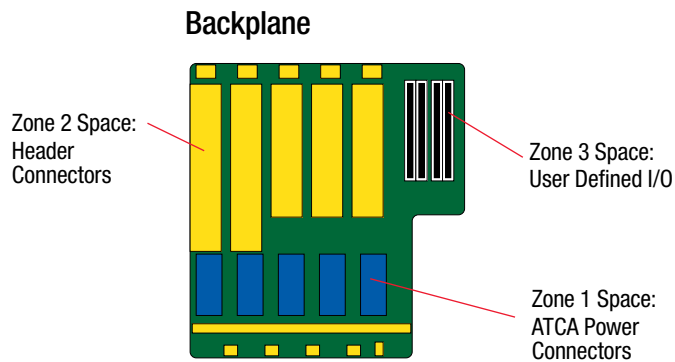
Specifications	Product Signal Integrity data	Available upon request Available upon request
Materials	Contacts	Copper alloy
	Plating Options	0.76 µm Min Au / 0.25µm Min Au 0.08 µm Min Au Finish (1.27 µm Min Ni Undercoat)
	Housings	Glass filled polyester (PBT) (UL 94V-0)
Electrical	Current Carrying Capacity	Signal Pins: 1A Power Pins: 16A
	Insulation Resistance	5 X 10 ⁹ Ohms
	Voltage Proof	1-16: 1000 VRMS 17-34: 2000 VRMS
	Initial Contact Resistance	Signal Contact: 8.5 milliohms max Power Contact: 2.2 milliohms max

Additional Information

All ATCA front boards (daughtercards) have three connector zones:

- Zone 1 = power connection and shelf management
- Zone 2 = data transport Interface
- Zone 3 = user-defined I/O interconnect

Today, 3M is only offering the ATCA Zone 1 power connector.



*“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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