

# 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

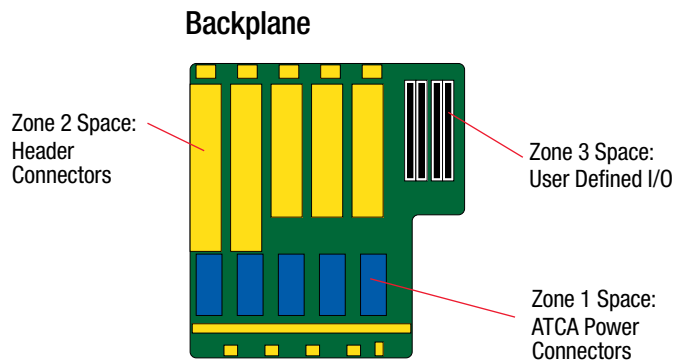
|                |                                  |                                                                                    |
|----------------|----------------------------------|------------------------------------------------------------------------------------|
| Specifications | Product<br>Signal Integrity data | Available upon request<br>Available upon request                                   |
| Materials      | Contacts                         | Copper alloy                                                                       |
|                | Plating Options                  | 0.76 µm Min Au / 0.25µm Min Au<br>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<br>Power Pins: 16A                                                 |
|                | Insulation Resistance            | 5 X 10 <sup>9</sup> Ohms                                                           |
|                | Voltage Proof                    | 1-16: 1000 VRMS<br>17-34: 2000 VRMS                                                |
|                | Initial Contact Resistance       | Signal Contact: 8.5 milliohms max<br>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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