

3M™ Connectors for MicroTCA™ Applications

3M is offering Power and Signal Connectors for MicroTCA Applications as an addition our embedded computing product line.

- **Power Connectors:** These pin and socket connectors conform to PICMG® MicroTCA.0 R1.0 standard requirements. They have 24 high-power contacts and 72 high-density signal contacts available in 6 mm and 2.25 mm contact widths.
- **Signal Connectors:** These mezzanine card backplane connectors conform to PICMG AdvancedMC.0 R2.0 standard requirements. They are available with and without alignment posts.

Features and Benefits

Power Connector

Supports PICMG MicroTCA (AdvancedMC 1.0) specification

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

Backplane and daughtercard versions

Press-fit termination

Mating force: 145 N Max.; withdrawal force: 110 N Max.

Supports 200 mating cycles

Signal Connector

AdvancedMC™ Connector for MicroTCA Applications

Card edge connector 170 positions

Available with or without post

Press-fit termination; 0.75 mm pitch

Mating force: 100 N Max; Withdrawal force: 65 N Max

Superior signal integrity

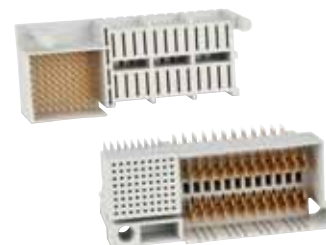
Target Markets and Applications

Telecom and networking-access products Outdoor ruggedized applications

Fiber-to-the-premise applications Traffic control boxes

Medical applications Military/aerospace backplanes

Instrumentation and control systems Designed for hot-swap applications



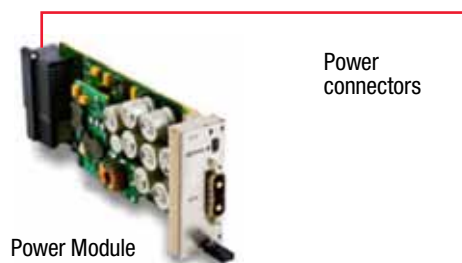
3M™ Power Connectors for MicroTCA™ Applications



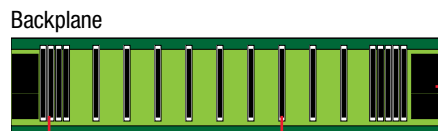
3M™ Signal Connectors for MicroTCA™ Applications



Plug Connector Module



Power Module



For MicroTCA™ Carrier Hub (MCH) Applications AdvancedMC™ card edge connector space



3M™ Connectors for MicroTCA™ Applications

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

Part Number	Description	Contact Positions	Customer Drawing
1P02-1110-AS	MicroTCA Backplane Header and Power Female Module	6.00 contact surfaces	TS-2366
1P01-1110-AS	MicroTCA Right Angle Socket and Power Male Module	6.00 contact surfaces	TS-2367
1P00-2000-KR	MicroTCA AMC Mezzanine Card Backplane Connector	Without alignment post	TS-2368
1P00-2001-KR	MicroTCA AMC Mezzanine Card Backplane Connector	With alignment post	TS-2368

Product Specifications

		Power Connector	Signal Connector
Specifications	Product Signal Integrity Data	Available upon request Available upon request	Available upon request Available upon request
Materials	Contacts	Copper alloy, gold plating	Copper alloy
	Platings	0.76 µm Au / 0.38 µm PdNi+Au	0.76 µm Au
	Housings	Thermoplastic polyester, glass-filled (UL 94V-0)	High temperature thermoplastic (LCP) (UL 94V-0)
Board	Finished Diameter	NA	0.55 +/- 0.5 mm
	Thickness	NA	1.4 mm Min
Mechanical	Mating Force	145 N Max	100 N Max
	Withdrawal Force	110 N Max	65 N Max
	Durability	200 mating cycles	NA
Electrical	Current Rating	GND Conductor: 0.625A/pin Power Branch GNA Conductor: 11.625A/pin	NA
	Insulation Resistance	Signal GND Conductor: 25millionohms Power Branch GND Conductor: 5millionohms	NA
	Withstanding Voltage	80V r.m.s	NA

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