## 3M<sup>™</sup> Connectors for Embedded Systems

Connectors for AdvancedTCA®, CompactPCI® and MicroTCA™ Systems from 3M







#### Introduction

#### Purpose

• To explain the features and benefits of the connectors for Embedded Computer Systems

#### Objectives

- Highlight the key features and describe applications
- Content
  - 11 pages
- Learning Time
  - 7 minutes



#### Overview

- 3M has expanded its range of connectors for open modular computers meeting PICMG® specifications:
  - CompactPCI® (cPCI) Systems
  - AdvancedTCA® (ATCA) Systems
    - Advanced Telecommunications Computing Architecture
  - MicroTCA™ Systems/µTCA®
    - Micro Telecommunications Computing Architecture

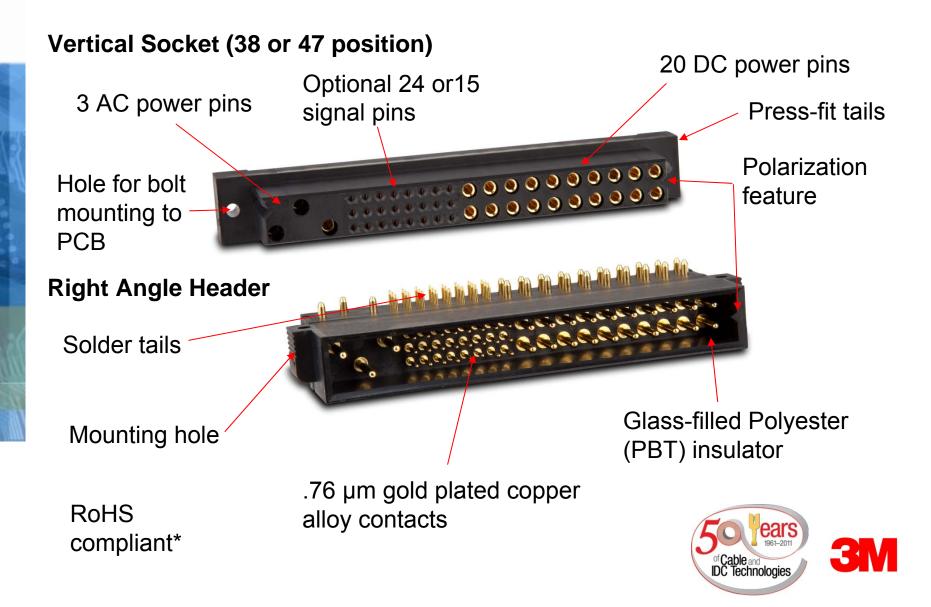


# CompactPCI®





# 3M<sup>™</sup> Power Connector Anatomy



#### AdvancedTCA®



Celebrating







## 3M<sup>™</sup> Power Connector Anatomy

Vertical Socket (22, 30, and 34 position available)





8 DC power contacts

26 signal contacts

Alignment features

**Right Angle Header** 



Glass-filled Polyester (PBT) insulator

RoHS compliant\*

.76 µm gold plated copper alloy contacts





# μTCA®

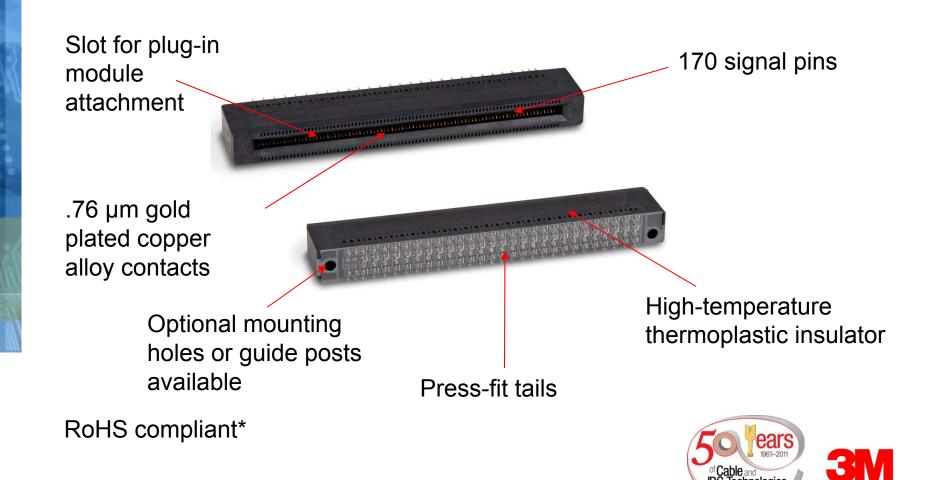






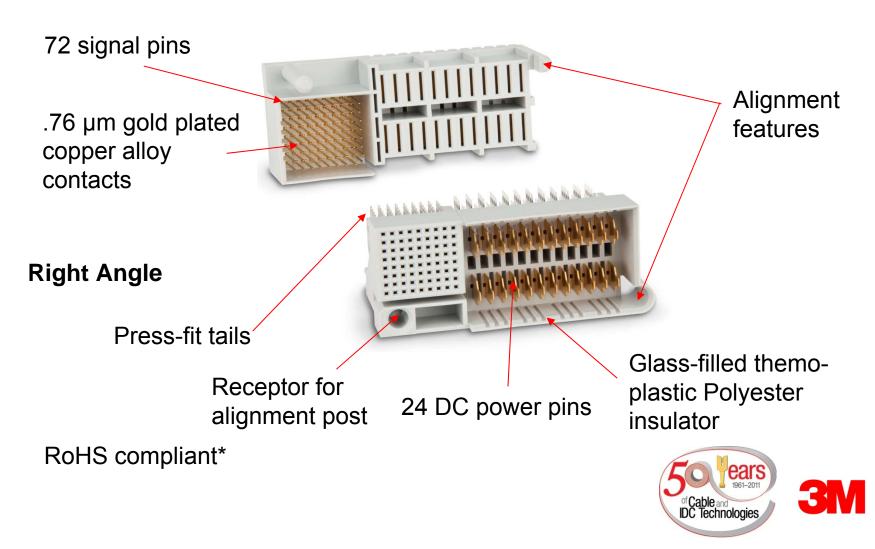
#### 3M<sup>™</sup> Mezzanine Card Connector Anatomy

#### **Vertical Cardedge (170 position)**



# 3M<sup>™</sup> Power Connector Anatomy

#### Vertical (96 position)



## Summary

- New PICMG® compliant connectors from 3M for
  - CompactPCI® (cPCI) Systems
    - 38 and 47 position signal/power connectors
  - AdvancedTCA® (ATCA) Systems
    - 22, 30, and 34 position signal/power connectors
  - MicroTCA™ Systems/µTCA®
    - 170 position mezzanine and 96 signal/power connectors
- Mating vertical and right angle versions
- PCB mounting and alignment features
- RoHS compliant\*



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