

Tyco Electronics Corporation Harrisburg, PA

tycoelectronics.com

3-1773445-8-2.5M-LUG-FP-6-07







7 Тусо **Electronics**

Need more information?

numbers listed below.

Technical Support

Product Samples

Tyco Electronics

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and

PICMG are trademarks of PICMG-PCI

Industrial Computer Manufacturers

Locations

Group Incorporated.

Catalog 3-1773445-8

Revised 6-07

2

Technical Documents

Authorized Distributor

Catalogs

Call Technical Support at the

Technical Support is staffed

with specialists well versed in

all Tyco Electronics products.

They can provide you with:

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards

Introduction



Solutions For AdvancedTCA

Hardware designers, particularly those working on blades or chassis, are currently faced with huge challenges. The needs of the communications network infrastructure and next generation communication applications are rapidly changing, and cannot be served by existing proprietary solutions.

Therefore AdvancedTCA (Advanced Telecommunications Computing Architecture), MicroTCA (Micro Telecommunications Computing Architecture) and AdvancedMC (Advanced Mezzanine Card) open industry standards have been developed by PICMG to place a high priority on cost effectiveness while attempting to support a variety of potential future technologies.

This new standard is also supported by Tyco Electronics, which shows the full range of AdvancedTCA, MicroTCA and AdvancedMC compliant components that can be offered for the wide area of applications within telecommunication as well as data communication.

Why are AdvancedTCA and MicroTCA Standards Important?

AdvancedTCA and MicroTCA provide a means for the telecommunications equipment market to take advantage of standardized, off-the-shelf hardware (enabling differentiation through application-layer and system-level software rather than hardware).

- Shorter time to market
- Increased vendor choice
- Increased flexibility
- Multiple switch fabrics supported
- User defined I/O
- Lower cost (Acquisition CapEx/OpEx)

Examples of Telecom & Network Equipment Manufacturers' Related AdvancedTCA and **MicroTCA Applications &** Systems

Wireless Infrastructure Equipment

 Base Stations 3G (IMT-2000) WCDMA CDMA2000 **TD-SCDMA**

- Radio Network Controllers (RNC)
- Serving Gateway Support Node (SGSN)
- Gateway GPRS Support Node (GGSN)
- Home Location Register (HLR)
- IP Multimedia Subsystem (IMS) Servers
- Media and Application Servers
- Media Gateways and Soft Switches

Wireline Networking Equipment

- DSLAMs
- Multi-service switches
- Media servers
- Blade servers
- VOIP Session Controllers

Fiber Optic Networking Equipment

Dimensions are in millimeters www.tycoelectronics.com

and inches unless otherwise reference purposes only. Specifications subject specified. Values in brackets are U.S. equivalents. to change.

Dimensions are shown for USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Introduction (Continued)

Advanced TCA® 🥮

What Is AdvancedTCA?

AdvancedTCA is an open industry standard, developed by PICMG 3.0, to create a new blade (board) and chassis (shelf) form factor, tailored to meet the needs of the rapidly changing communications network infrastructure, and next generation communication applications, which cannot be served by existing proprietary solutions. This architecture places high priority on cost effectiveness versus attempting to support a variety of potential future technologies.

While the specification is founded on the requirements of the communications infrastructure, it is extensible to a variety of applications and environments where highly available, highly scalable, cost effective and open architecture modular solutions are required. The architecture is optimized around connectivity requirements of signaling and media gateways, while also providing headroom for higher performance computing elements @ a 99.999% availability rate. AdvancedTCA offers a scalable backplane environment that supports:

- A variety of standard and proprietary fabric interfaces
- Robust system management
- Superior power and cooling capabilities.

Each board in AdvancedTCA (up to 16 boards a shelf and 3 shelves a rack) may support up to 200 W in a single slot. The power is supplied to each board via redundant -48 VDC feeds. Front and rear cabling practice is supported for standard 600 mm total depth cabinet practice, prevalent in Central Office facilities.

Advanced TCA® 300

What Is AdvancedTCA300?

AdvancedTCA300 is an AdvancedTCA based equipment platform, but compliant with the ANSI and ETSI equipment practices requiring 300 mm total depth, front access included.

AdvancedMC**

What Is AdvancedMC?

The AdvancedMC standard. also developed by PICMG. defines the base-level requirements for a widerange of high-speed mezzanine cards, optimized for, but not limited to, AdvancedTCA and MicroTCA carrier blades. AdvancedMC defines a modular add-on or "child" card that extends the functionality of an AdvancedTCA carrier board. In an AdvancedTCA equipment practice, the AdvancedMC modules lie parallel to and are integrated onto the AdvancedTCA carrier board. The AdvancedMC cards can also be equipped in MicroTCA shelves.

µtca™

What Is MicroTCA?

MicroTCA is complementary to AdvancedTCA, but is optimized for smaller scale and more price sensitive applications. The basic premise of MicroTCA is to support mezzanine boards, conform to the AdvancedMC standard, and connect to the backplane, eliminating the need to use an additional carrier board. Like AdvancedTCA, the MicroTCA equipment practice is a modular, open standards based shelf level platform. The MicroTCA standard has not finished completion yet.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

www.tycoelectronics.com/products/atca

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for
reference purposes only.U
C
C
C
C
N
to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

-3

© Copyright 2007, 2006 and 2005 by Tyco Electronics Corporation. All International Rights Reserved. AMP, Austin Lynx, CHIP COOLER, ELCON, FUTUREBUS+, MINIPAK, MRJ21, MULTI-BEAM XL, TE Logo, Tyco Electronics, Z-PACK and Z-PACK TinMan are trademarks. AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers

Infiniband is a trademark of Infiniband

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While Tyco Electronics Corporation and its affiliates referenced herein ("Tyco Electronics") have made every reasonable effort to ensure the accuracy of the information in this catalog, Tyco Electronics does not guarantee that it is error-free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information contained herein at any time without notice. Tyco Electronics expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied war-

ranties of merchantability or fitness for

a particular purpose. Tyco Electronics'

Tyco Electronics Standard Terms and

Conditions of Sale, and in no case will

Tyco Electronics be responsible for any

incidental, indirect, or consequential

damages arising from the sale, resale,

use, or misuse of its products. Users

should independently evaluate the suit-

application.

ability of, and test each product for, their

The dimensions, specifications, designs,

construction, materials and processes in

this catalog are for reference purposes

only and are subject to change without

notice. Please consult Tyco Electronics

for the most current product information.

The export of certain Tyco Electronics

products is restricted by the Arms Export

Control Act (Title 22, U.S.C. Sec 2751, et

seq.) or the Export Administration Act of

1979, as amended (Title 50, U.S.C., App.

2401 et seq.). Orders may be subject to

export approval by the U.S. Government.

export laws of all applicable jurisdictions.

Buver must comply with all applicable

See inside back cover for Global

Contacts and phone numbers.

only obligations are those in the

Group Incorporated.

Trade Association.

Disclaimer

Table of Contents

Introduction to AdvancedTCA, MicroTCA, and AdvancedMC Standards2, 3
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications
AdvancedTCA — Zone 1 Power Connectors
AdvancedTCA — Zone 2 Z-PACK HM-Zd High Speed Signal Connectors
AdvancedTCA — Zone 3 RTM Board Connector
Co-Planar UPM for AdvancedTCA Zone 3 Power Applications
Z-PACK TinMan Connectors for AdvancedTCA Standards — Zone 3 12
AdvancedTCA — Advanced Mezzanine Card (AdvancedMC) Connectors
MULTI-BEAM XL Connectors for AdvancedTCA 300 Standard
AdvancedTCA — Guide Modules 15
Product Defined in MicroTCA Specification
Vertical AdvancedMC Connector for MicroTCA Applications
MINIPAK HD Power Connectors
Product Compliant to xTCA or AdvancedMC Specifications
Stacked RJ45 Modular Jacks for AdvancedTCA, AdvancedMC Standards20
Low Profile RJ45 Modular Jacks
AdvancedTCA — Front & Rear I/O Connectors – SFP Modules
AdvancedTCA — Front & Rear I/O Connectors — MRJ21 Receptacles23
AdvancedTCA — Thermal Products & Services
Low Profile DDR2 Connector for AdvancedTCA Standards
SO DIMM Connectors for AdvancedMC Applications
1.0 mm Free Height (FH) (IEEE 1386) Connectors
AdvancedTCA — Power Distribution & Management Modules
Part Number Index
Web Site Information
Global Contacts

Restriction on the use of Hazardous Substances (RoHS)

At Tyco Electronics, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted Imaterials. Part numbers in this catalog are identified as:

RoHS Compliant — Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006. NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

5 of 6 Compliant — A "•" symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

Dimensions are shown for

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

Getting the Information You Need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at www.tycoelectronics.com/leadfree

Catalog 3-1773445-8 Revised 6-07

4

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise reference purposes only. specified. Values in brackets Specifications subject are U.S. equivalents. to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



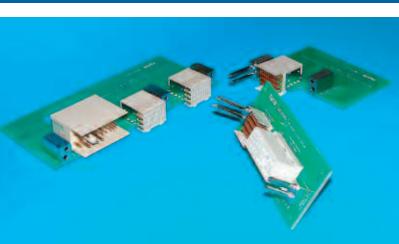
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications

AdvancedTCA — Zone 1 Power Connectors

Tyco Electronics' AdvancedTCA Power Connector is designed to meet or exceed the PICMG 3.0, R2.0 (AdvancedTCA) specification for Zone 1 connector requirements including four levels of sequential mating to provide proper system functionality during live insertion or extraction of front boards. Integrated lead-in on the injection molded housing provides superior blind mate capability and is fully intermateable with competing connectors designed to meet the AdvancedTCA specification for power connectors.

www.tycoelectronics.com/products/atca www.elconproducts.com

Catalog 1773096 / 1773095 Flyer 2-1773441-7



Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

FEATURES: • High conductivity, precision

formed contacts

• Selective plating in compliance with RoHS requirements

 Precision formed compliant terminations offer excellent retention to provide a reliable connection

• Qualified to meet PICMG 3.0, R2.0 specification

AdvancedTCA Zone 1 Connector

Front Board Connector Right Angle Header Part Number 1766500-1

Backplane Connector Vertical Receptacle Part Number 1766501-1



Backplane Connector



Daughtercard Connector

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Note: Part Numbers are RoHS compliant.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com specified are U.S.

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are shown for
reference purposes only.USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

AdvancedTCA Zone 1

Connector (Continued)

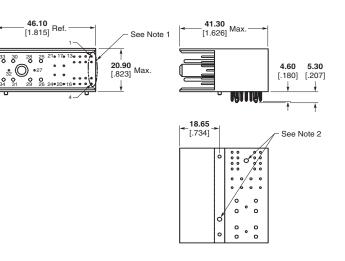
Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications **Front Board Connector Right Angle**, **Compliant Press-fit** Part Number 1766500-1 (tin plated pcb tails) Part Number 1766500-2● (tin-lead pcb tails)

Right Angle Plug, 22-Position, **Compliant Press-fit** Part Number 1766502-1 (tin plated pcb tails) Part Number 1766502-2● (tin-lead pcb tails)

Material and Finish

Insulators — Thermoplastic, glass reinforced, black, UL94V-0 Signal Pins — Copper alloy Power Contacts — High conductivity copper alloy, plated 0.00076 [.000030] min. gold in mating area **Solder Tails** — 0.0030 - 0.0043 [.000120 - .000170] tin plated

Notes: 1. Mounting Holes (Ø 2.00 [.079] x 5.00 [.197] DP) for use with self tapping screw (customer supplied) 2. Positions 1-4 not populated and reserved for future use.



Backplane Connector Straight, Compliant Press-fit, Part Number 1766501-1 (tin plated pcb tails) Part Number 1766501-2● (tin-lead pcb tails)

Straight, 22-Position, **Compliant Press-fit** Part Number 1766503-1 (tin plated pcb tails) Part Number 1766503-2● (tin-lead pcb tails)

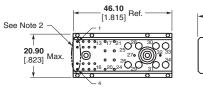
Material and Finish

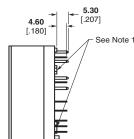
Insulators — Thermoplastic, glass reinforced, black, UL94V-0 Signal Pins — Copper alloy Power Contacts — High conductivity copper alloy, plated 0.0076 [.000030]

min. gold in mating area Solder tails — 0.0030 - 0.0043 [.000120 - .000170] tin plated

Notes:

1. Mounting Holes (Ø2.00 [.079] x 5.00 [.197] DP) for use with self tapping screw (customer supplied). 2. Positions 1–4 not populated and reserved for future use.





22.20

[.874]

JUMMU

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Note: Part Numbers are RoHS compliant except: • Indicates "5 of 6 compliant" (lead in solderable interface only).

Catalog 3-1773445-8 Revised 6-07 www.tycoelectronics.com

6

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets Specifications subject are U.S. equivalents. to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for reference purposes only. C. America: 52-55-1106-0803

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

AdvancedTCA — Zone 2 Z-PACK HM-Zd High Speed Signal Connectors

Z-PACK HM-Zd product from Tyco Electronics is the high-speed, Advanced Differential Fabric Connector system specified by PICMG for use in AdvancedTCA Zone 2. The coplanar application version using the right angled male and identical Zone 2 card connector (right angled female), can be used in Zone 3. In addition to the four-pair connector modules specified for use in AdvancedTCA Zone 2, the product line includes two-pair and threepair signal modules, coplanar connectors, and high-speed cable assemblies for use in Zone 3. A mezzanine style connector is also available in a four-pair version.

www.tycoelectronics.com/products/atca www.hmzd.tycoelectronics.com

Catalog 1773095 Flyer 1308658

FEATURES

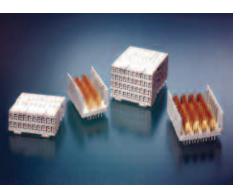
• Designed specifically for highspeed differential applications (3.125 Gb/s to 10+Gb/s)

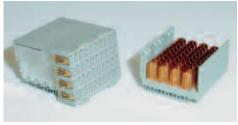
 A modular connector system with a standard module size of 25.00 [.984]

• Z-PACK HM-Zd product is an extension of the Z-PACK 2 mm HM product line

• Pin header and receptacle have the exact same footprint to simplify PC board layout

 Optimized footprint supports quad routing techniques for improved electrical performance, ease of trace routing, and significant PCB manufacturing cost reductions Designed to meet Telcordia requirements



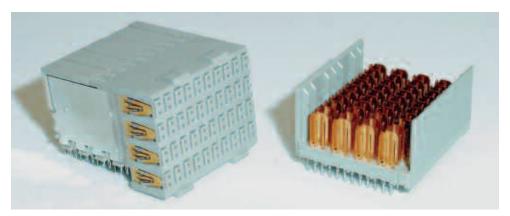


Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

AdvancedTCA Zone 2 Z-PACK HM-Zd High Speed Signal Connectors

Front Board Connector 4 Pair Right Angle Receptacle Part Number 6469001-1

Backplane Connector 4 Pair Vertical Header Part Number 6469002-1



Front Board Connector

reference purposes only.

Specifications subject

to change.

Backplane Connector

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Note: Part Numbers are RoHS compliant.

Catalog 3-1773445-8 Revised 6-07

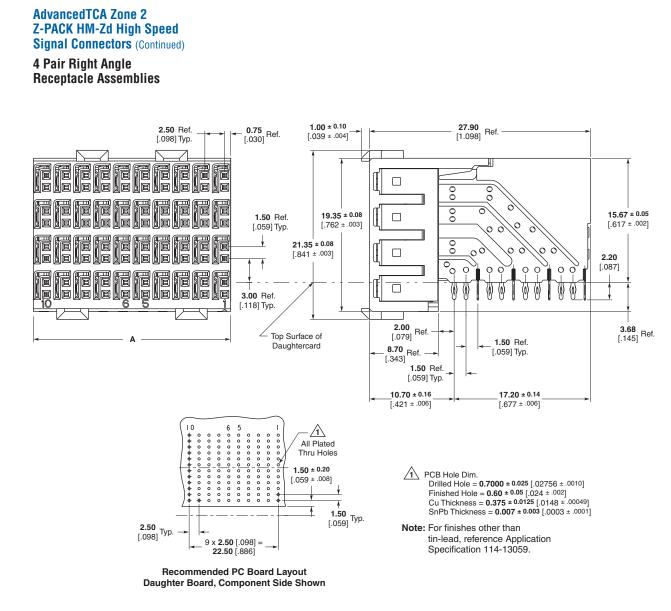
www.tycoelectronics.com

and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are in millimeters

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for C. America: 52-55-1106-0803

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)



					Application Tooling			
Part Number	Column	Module Length	Signals	Grounds	Insertion Re		air	
r art Number	Count	(Dim. A)	Signals	Glounds	Receptacle	Housing Removal	Chiclet Removal	
6469001-1 ¹	10	25.00 .984	80	40	91347-1	1583224-1	1583248-1	
6469286-1	12	30.00 1.181	96	48	91347-3	1583224-2	1583248-1	
6469294-1	15	37.50 1.476	120	60	91347-2	1583224-3	1583248-1	
6469061-1	20	50.00 1.969	160	80	91347-4	1583224-4	1583248-1	

¹ AdvancedTCA Zone 2 Daughtercard Connector. Note: Part Numbers are RoHS compliant.

Dimensions are shown for

to change.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

8

www.tycoelectronics.com

and inches unless otherwise reference purposes only. Specifications subject specified. Values in brackets are U.S. equivalents.

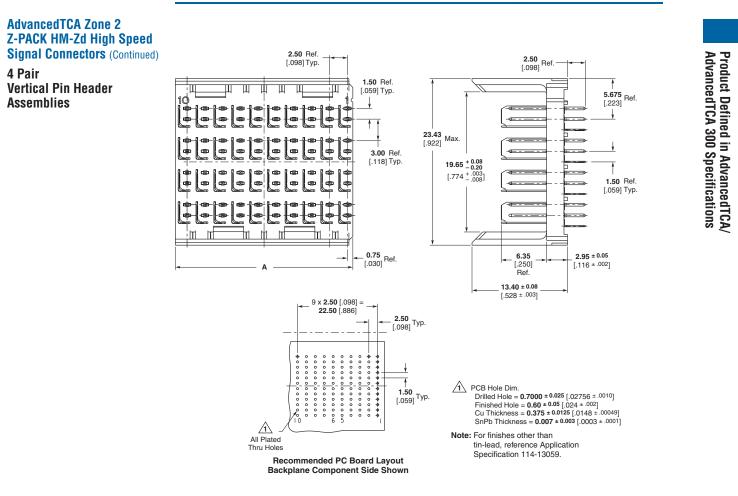
Dimensions are in millimeters

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

4 Pair

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)



							Application Tooli			
Part	Tail	Mating Pin	Column	Module Length	Signals	Signals Grounds			Repair	
Number	Length	Length	Count	(Dim. A)	orginais	Signais Grounds -	Pin Header	Pin Removal	Housing Removal	Pin Insertion
6469002-1 ¹	2.50 .098	5.30 .209	10	25.00 .984	80	40	91349-1	1583237-1	1583220-1	1583255-1
6469046-1 ²	2.50 .098	5.30 .209	10	25.00 .984	80	40	91349-1	1583237-1	1583220-1	1583255-1
6469074-1	1.80 .071	5.30 .209	10	25.00 .984	80	40	91349-1	1583237-1	1583220-1	1583255-1
6469287-1	2.50 .098	5.30 .209	12	30.00 1.181	96	48	91349-3	1583237-1	1583220-1	1583255-1
6469296-1	2.50 .098	5.30 .209	15	37.50 1.476	120	60	91349-2	1583237-1	1583220-1	1583255-1
6469062-1	2.50 .098	5.30 .209	20	50.00 1.969	160	80	91349-4	1583237-1	1583220-1	1583255-1
6469099-1	1.80 .071	5.30 .209	20	50.00 1.969	160	80	91349-4	1583237-1	1583220-1	1583255-1

¹ AdvancedTCA Zone 2 Backplane Connector.

² Shallow Wall for Daughtercards thicker than 3.50 [.138]. Note: Part Numbers are RoHS compliant.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets reference purposes only. Specifications subject are U.S. equivalents. to change.

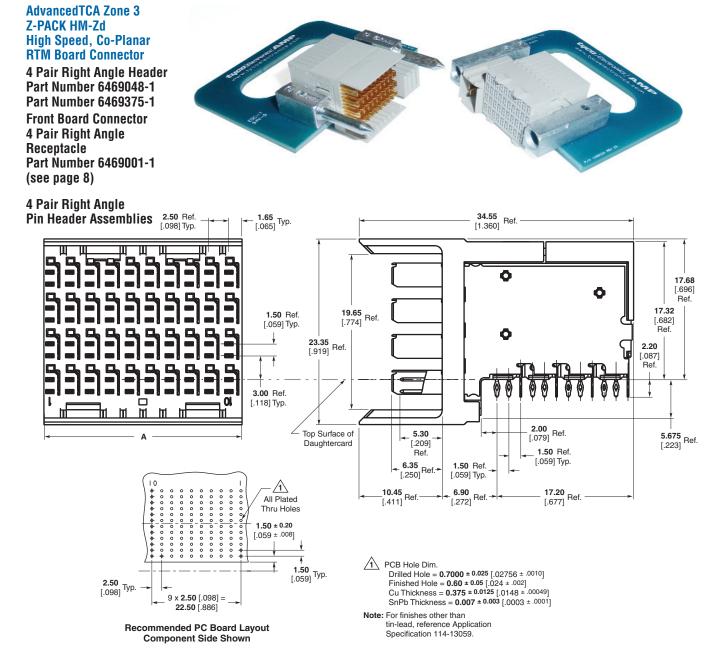
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

Z-PACK HM-Zd RTM Board Connector for AdvancedTCA Zone 3 Standard



							Application Tooling			
Part	Tail	Mating Pin	Column	Module Length	Signals	Grounds	Insertion	R	epair	
Number	Length	Length	Count	(Dim. A)	j	Groundo	Pin Header	Housing Removal	Chiclet Removal	
6469048-1	2.20 .087	5.30 .209	10	25.00 .984	80	40	91378-1	1804174-1	1804177-1	
6469375-1	2.20 .087	5.30 .209	12	30.00 1.181	96	48	91378-3	1804174-1	1804177-1	

Note: Part Numbers are RoHS compliant.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

10

Revised 6-07 www.tycoelectronics.com

Catalog 3-1773445-8

and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are in millimeters Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

000.00

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

Co-Planar UPM for AdvancedTCA Zone 3 Power Applications

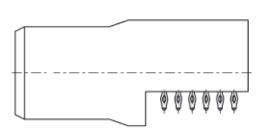
The Co-Planar Universal Power Module (UPM) is specifically designed to meet the need of connecting two printed circuit boards on the same plane. The UPM connector features hot-pluggable, 16 Amp power industry proven contacts and have three sequencing levels.

FEATURES

- Hot-Pluggable contact design
- 16 Amp per contact (on 4-position)
- 250 cycle durability
- Touch-safe receptacle

Right Angle Receptacle

No. of Circuit Positions	Right-Angle High Power 16 Amps/ Contact Part Numbers
3	120943-1
4	120943-2
5	120943-3
6	120943-4
7	120943-5
8	120943-6
9	120943-7



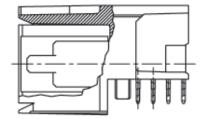
Right Angle Plug

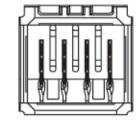
Number of Positions	Dimension L	High Power 16 Amps/ Contact Sequence* Pattern	Part Number
	10.00	M,M,M	5-5223961-1
3	12.00 .472	M,L,M	5-5223963-1
		**	**
	15.00 .591	L,L,L,L	120954-1
4		L,M,S,S	120954-2
		**	**
	18.00 .709	L,L,L,L	120955-1
5		M,M,L,M,M	120955-2
		**	**
		L,L,L,L,L,L	120956-1
6	21.00 .827	L,M,S,S,S,S	120956-2
	.027	**	**
7	24.00	L,L,L,L,L,L,L	120957-1
/	.945	L,S,S,L,S,S,L	120957-2
8	27.00	L,L,L,L,L,L,L,L	120958-1
0	1.063	L,M,S,S,S,S,S,S	120958-2

*Sequencing Reads left-to-right along mating face. L (long) = 10.90 [.429], M (medium) = 9.30 [.366], S [short] = 7.68 [.302] **Other sequence patterns available. See on-line customer drawing.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Note: Part Numbers are RoHS compliant.





www.tycoelectronics.com

Dimensions are in millimeters Dimensions are shown for and inches unless otherwise reference purposes only. Specifications subject specified. Values in brackets are U.S. equivalents. to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

11

Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

Z-PACK TinMan Connectors for AdvancedTCA Standards — Zone 3

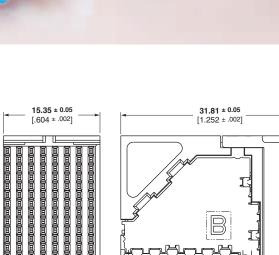
Tyco Electronics Z-PACK TinMan product is a new high speed, 100-Ohm Impedance matched connector with extreme signal density. This connector can be pinned out for lower speed signal ended lines and exists in 3, 4, and 5 pair per column versions.

FEATURES:

- High speed: +10 Gbps
- High Density: 25 pair/cm [66 pairs/in]
- 3, 4, and 5 pair per column versions (5 pair shown)
- Available with or without end walls for pin protection
- Designed to meet Telcordia requirements

Z-PACK TinMan Receptacles

No. of Pairs	Columns	Part Number	Dimen	sions
NO. OF Pairs	Columns	Part Number	Length	Width
	8	1934226-1	31.81 1.25	15.35 .604
3	16	1934229-1	31.81 1.25	30.55 1.203
4	8	1934222-1	31.81 1.25	15.35 .604
	16	1934225-1	31.81 1.25	30.55 1.203
5	8	1934218-1	31.81 1.25	15.35 .604
	16	1934221-1	31.81 1.25	30.55 1.203



Z-PACK TinMan Headers

No. of Daira	Columna	Part Number	Dimen	Dimensions		
No. of Pairs	Columns	Part Number	Length	Width	Walls	
	8	1469974-1	31.81 1.25	15.35 .604	Ν	
3	0	1469977-1	31.81 1.25	18.05 .710	Υ	
3	16	1934034-1	31.81 1.25	30.55 1.203	Ν	
	10	1934037-1	31.81 1.25	33.25 1.31	Y	
	8	1469793-1	31.81 1.25	15.35 .604	Ν	
4	0	1469795-1	31.81 1.25	18.05 .710	Υ	
4	16	1934026-1	31.81 1.25	30.55 1.203	Ν	
	10	1934029-1	31.81 1.25	33.25 1.31	Υ	
	8	1469735-1	31.81 1.25	15.35 .604	Ν	
5	0	1469737-1	31.81 1.25	18.05 .710	Υ	
5	16	1934018-1	31.81 1.25	30.55 1.203	Ν	AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are traden of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.
	10	1934021-1	31.81 1.25	33.25 1.31	Υ	Note: Part Numbers are RoHS compliant.
talog 3-177344 vised 6-07		Dimensions are in and inches unless	otherwise	refer	ensions are ence purpo	ses only. Canada: 1-905-470-4425 Hong Kong: 852-2735-1628

to change.

12

www.tycoelectronics.com

and inches unless otherwise specified. Values in brackets are U.S. equivalents.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 reference purposes only. Specifications subject

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

AdvancedTCA — Advanced Mezzanine Card (AdvancedMC) Connectors

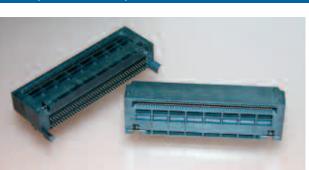
Tyco Electronics is developing an AdvancedMC connector designed to meet the PICMG AdvancedMC specification for use with AdvancedTCA carrier boards and other related applications. The AdvancedMC product family from Tyco Electronics will include single-part Z-Pluggable connectors in Extended (B+ and A+B+) styles.

www.tycoelectronics.com/products/atca

Product Specification 108-2277 Application Specification 114-13181

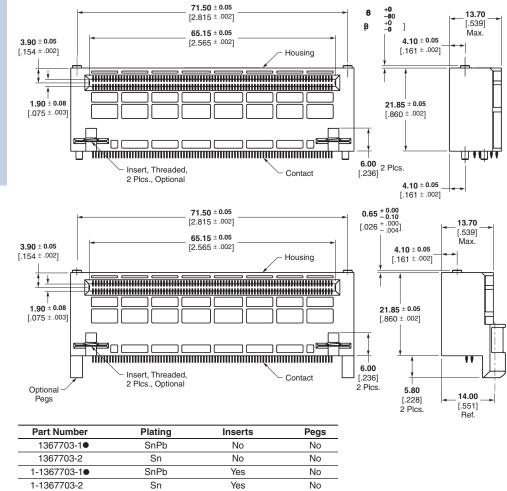
FEATURES

- B+ style available now
- A+B+ styles planned
- Targeted for high-speed differ-ential applications (3.125 Gb/s to 10+ Gb/s):
- Precision formed compliant pin reduces stub effect and offers excellent retention to provide a reliable connect
- Suitable for assembly processes using flat-rock tooling





AdvancedMC Connector, Style B+ Part Number 1367703-X



No

No

Yes

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

3-1367703-2 Yes Note: Part Numbers are RoHS compliant except:
Indicates "5 of 6 compliant" (lead in solderable interface only).

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

specified. Values in brackets are U.S. equivalents.

Dimensions are in millimeters

and inches unless otherwise

2-1367703-1

3-1367703-1

2-1367703-2

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Yes

Yes

Yes

Yes

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

13

SnPb

Sn

SnPb

Sn

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

MULTI-BEAM XL Connectors for AdvancedTCA 300 Standard

MULTI-BEAM XL product has recently been specified as the Power Entry Module (PEM) connector for use in AdvancedTCA 300 applications. This new MULTI-BEAM XL connector is a blind-mateable board-to-board power distribution connection system that is designed to meet the AdvancedTCA 300 specification. This new addition to the Tyco Electronics MULTI-BEAM XL product line is selectively loaded and available with press-fit or solder tail termination styles.

FEATURES:

Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

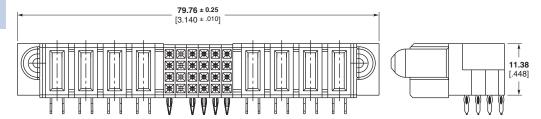
- Meets the AdvancedTCA 300
 Specification
- 55 Amp Single Power Contact, 4 Amp Single Signal Contact
- Solder or Press-Fit termination to PCB
- Specially sequenced for the AdvancedTCA Specification
- Custom configurable modular design

Right Angle Receptacle For use on PEM Part Number 1888765-1 (Press-Fit Version)

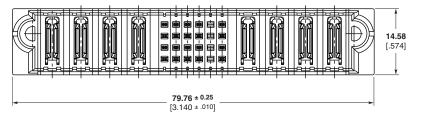
Vertical Plug For use on backplane Part Number 1888766-1 (Press-Fit Version)

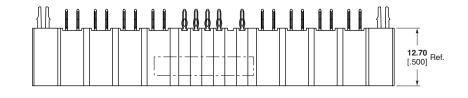


PEM Connector



Backplane Connectors





AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

14

www.tycoelectronics.com

and inches unless otherwise specified. Values in brackets are U.S. equivalents. reference purposes on Specifications subject to change.

Dimensions are in millimeters

Note: Part Numbers are RoHS compliant.

Dimensions are shown for
reference purposes only.USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

AdvancedTCA — Guide Modules

Tyco Electronics AdvancedTCA Guide Modules are available in various sizes and configurations and are suitable for use in a wide variety of applications including front board, mid plane, backplane, and a Rear Transition Module as specified in the AdvancedTCA specification. The guide hardware features improved locating features to confirm guidance is maintained across all component tolerances while the dual-keyed pin configuration allows for many different keying possibilities.

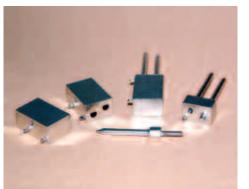
www.tycoelectronics.com/products/atca

Catalog 1773095

FEATURES: Configurations for front board and

backplane as well as midplane and coplanar applications in the RTM Vertical and right angle pins to support right angle and coplanar

board configurations • Guide pins are available in short or long lengths to accommodate various Tyco Electronics connectors



Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

AdvancedTCA Guide/ **Keying Modules**

The AdvancedTCA Guide Modules can be used in a wide variety of applications. For motherboard-todaughtercard applications the vertical pin and right angle socket are used. This popular configuration is further supported by our wide offering of available keying positions. Each of the two keyed guide pins and guide sockets per module can be produced in a variety of different key positions. For *co-planar* applications, the right angle guide pins are used along with the right angle guide sockets. Both vertical and right angle guide pins are available in short or long sizes, to accommodate being used with different Tyco Electronics connectors.

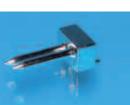






rK1

A1



K1/K2

A2

AdvancedTCA Name	AdvancedTCA Location	Description	Part Number
rA1	Backplane	Rear Alignment Post 3.00 – 4.00 [.118 – .157] PCB Thickness	1469269-2
rA1	Backplane	Rear Alignment Post 4.10 – 6.00 [.161 – .236] PCB Thickness	1469269-4
rA1	Backplane	Rear Alignment Post 6.10 – 8.00 [.240 – .315] PCB Thickness	1469269-6
A2 (RTM)	Rear Transition Module	Right Angle Male, Keyed	1-1469372-1
K1/K2	Front Board	Right Angle Female, Keyed	1-1469373-1
K1/K2	Front Board	Right Angle Female, Unkeyed Dummy	9-1469373-9
rK1	Rear Transition	Right Angle Female	1469374-1
A1	Backplane	Vertical Male, Keyed, Short	1-1469387-1
A2	Mid-Plane	Vertical Male, Keyed, Long	1-1469388-1

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Note: Part Numbers are RoHS compliant.

Dimensions are shown for

reference purposes only.

Specifications subject

to change.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are in millimeters

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

15

Product Defined in MicroTCA Specification

Vertical AdvancedMC Connector for MicroTCA Applications

FEATURES

- Press-fit connector per MicroTCA.0 Specification
- 170 lines
- Connector designed so that custom load patterns are easily created
- Single overmolded wafer design
- Fully validated electrical models available



Part Number 1469820-X

Product Specification					
108-2254					
Application Specification 114-13180					

Group Incorporated.

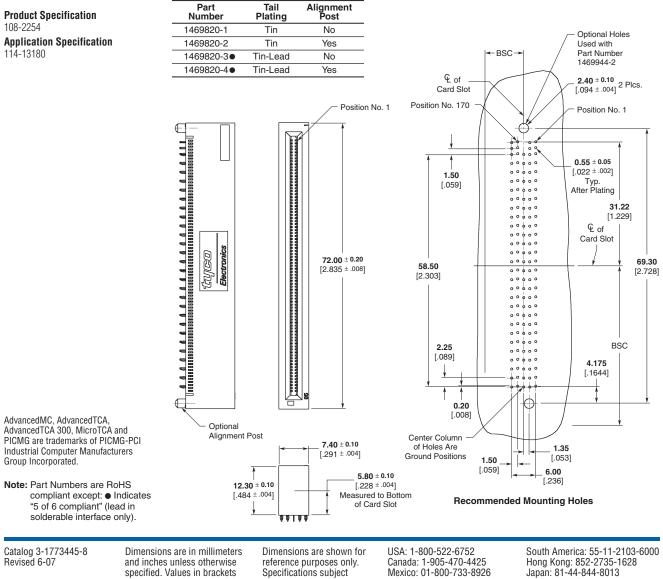
Revised 6-07

www.tycoelectronics.com

are U.S. equivalents.

to change.

16



UK: 44-8706-080-208

C. America: 52-55-1106-0803

Product Defined in MicroTCA Specification (Continued)

MINIPAK HD Power Connectors

The MINIPAK HD Connector is a 2-piece board-to-board connector designed to meet the PICMG MicroTCA specification. The connector consists of 24 power contacts and 72 high density signal contacts.

Application

Designed for a broad range of applications in Telecom Edge and customer premise equipment, CATV hardware, wireless base stations and other communication equipment manufactured to the MicroTCA (PICMG AdvancedMC 1.0) specification. Rugged contact design and post-plated 30 micro-inch gold plating provides long-term reliability in demanding environments.

Electrical Characteristics

Current Ratings ---- tested in accordance with IEC 60512-5-2 Test 5a requirements:

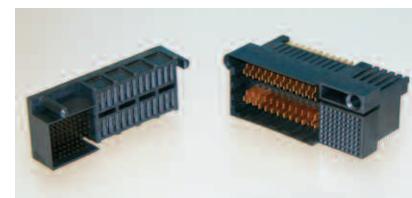
Signal Contacts — .625 ampere each Power Contacts -

- 11.625 ampere each (PICMG MicroTCA R1.0 requirement)
- 14.5 ampere each (Tyco Electronics MINIPAK HD performance)

Dielectric Withstanding Voltage — 80 volts rms between differential pair conductors, general purpose conductors, and power conductors

Environmental Characteristics Maximum Continuous Operating Temperature — 100°C Durability Rating - 250 cycles

Technical Documents Tyco Electronics Product Specification — 108-2253 PICMG Specification — PICMG MicroTCA Standard



FEATURES:

High Current Density

- 24 power contacts capable of carrying 14.5 Amps per contact when fully energized
- Industry proven UPM power contacts
- Hot Plug contact design controls arc during hot mate/un-mate cycles
- 3 Mating Levels:

to change.

- 1st Power/Ground, 2nd — Power/Signal,
- 3rd Short/Enable Signal

• Tin Plated (fully RoHS compliant) or tin-lead (5 of 6 RoHS compliant) pcb tails

Product Defined in MicroTCA Specification

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for reference purposes only. Specifications subject C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Defined in MicroTCA Specification (Continued)

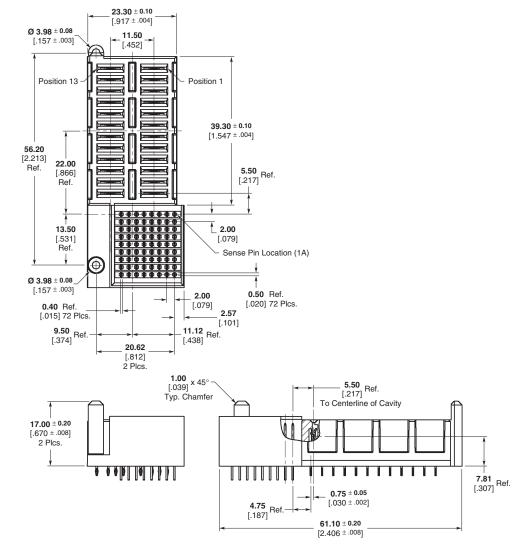
MINIPAK HD Power

Connectors (Continued)

Vertical Receptacle Part Number 1469920-1● (tin-lead pcb tails)

Part Number 1469920-2 (tin plated pcb tails)

The vertical connector consists of 72 2 mm pin and 24 UPM receptacle contacts. The contacts have compliant pin tails for press-fit applications.



AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Note: Part Numbers are RoHS compliant except:
Indicates "5 of 6 compliant" (lead in solderable interface only).

reference purposes only. Specifications subject

to change.

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Catalog 3-1773445-8 Revised 6-07

Product Defined in MicroTCA Specification (Continued)

MINIPAK HD Power Connectors (Continued)

Right Angle Plug Part Number 1469921-1 (solder tail)

Part Number 1469922-1 (press-fit)

Part Number 1469922-2● (press-fit, tin-lead pcb tails)

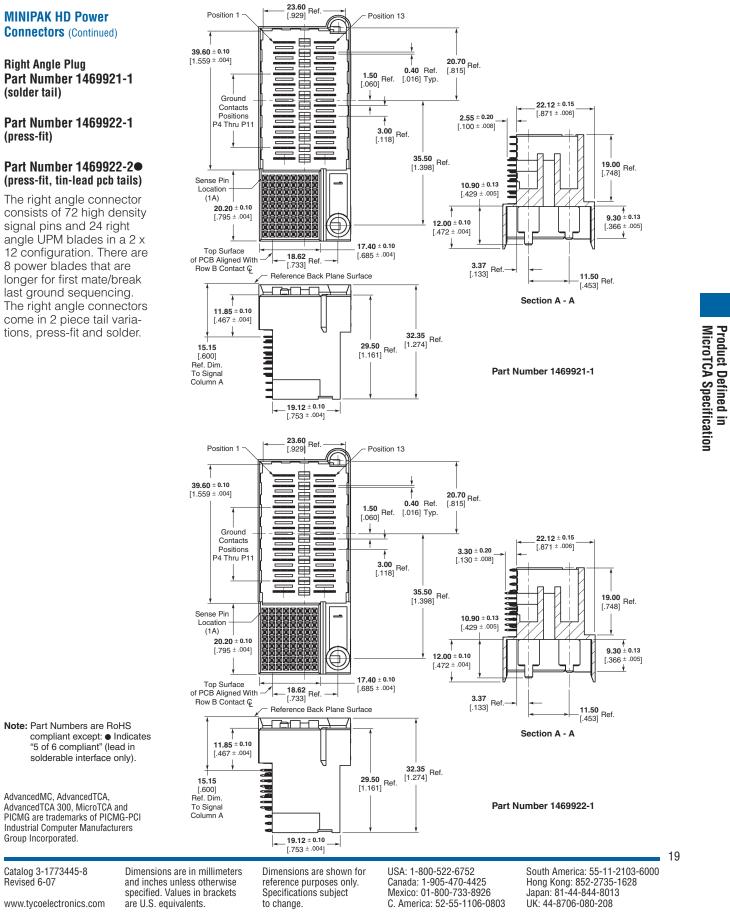
The right angle connector consists of 72 high density signal pins and 24 right angle UPM blades in a 2 x 12 configuration. There are 8 power blades that are longer for first mate/break last ground sequencing. The right angle connectors come in 2 piece tail variations, press-fit and solder.

AdvancedMC, AdvancedTCA,

Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com



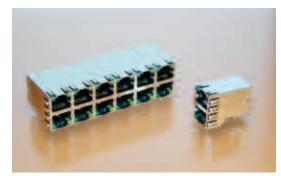
Product Compliant to xTCA or AdvancedMC Specifications

Stacked RJ45 Modular Jacks for AdvancedTCA, AdvancedMC Standards

Tyco Electronics has released new stacked RJ45 modular jacks designed to meet both AdvancedTCA and AdvancedMC standards. The offset has been designed to fit the faceplate and board layout in AdvancedTCA and full-size AdvancedMC modules, while providing the port density of the stacked configuration. These jacks are shielded and include panel ground springs for EMI containment. They are available in 2x1, 2x4, 2x6, and 2x8 configurations, with and without LEDs, and are designed for GigE performance.

www.tycoelectronics.com/products/atca

Catalog 82066



FEATURES

- Offset designed to meet both AdvancedTCA and AdvancedMC standards Category 5 Performance
- Available in 2x1, 2x4, 2x6, and 2x8
- configurations
- Press-fit termination to the board
- Available with various LED options

Part Number (3.27 mm Offset)	Configuration	LED #1 (Lower Port Left Side)	LED #2 (Upper Port Left Side)	LED #3 (Upper Port Right Side)	LED #4 (Lower Port Right Side)	Ground Clips	Shield Side Ground Pin
1888652-1	2x1	None	None	None	None	No	Yes
1888652-2	2x1	None	None	None	None	Yes	Yes
1888653-1	2x1	Green	Green	Green	Green	No	Yes
1888653-2	2x1	Green	Green	Green	Green	Yes	Yes
1888653-3	2x1	Yellow	Yellow	Green	Green	Yes	Yes
1888653-4	2x1	Green	Green	Yellow	Yellow	Yes	Yes
1888506-1	2x4	None	None	None	None	No	Yes
1888506-2	2x4	None	None	None	None	Yes	Yes
1888507-1	2x4	Green	Green	Green	Green	No	Yes
1888507-2	2x4	Green	Green	Green	Green	Yes	Yes
1888507-3	2x4	Green	Green	Yellow	Yellow	No	Yes
1888507-4	2x4	Green/Yellow	Green/Yellow	Green/Yellow	Green/Yellow	Yes	Yes
1888508-1	2x6	None	None	None	None	No	Yes
1888508-2	2x6	None	None	None	None	Yes	Yes
1888509-1	2x6	Green	Green	Green	Green	No	Yes
1888509-2	2x6	Green	Green	Green	Green	Yes	Yes
1888509-3	2x6	Green	Green	Yellow	Yellow	No	Yes
1888509-4	2x6	Green/Yellow	Green/Yellow	Green/Yellow	Green/Yellow	Yes	Yes
1888654-1	2x8	None	None	None	None	No	No
1888654-2	2x8	None	None	None	None	No	Yes
1888654-3	2x8	None	None	None	None	Yes	Yes
1888654-4	2x8	None	None	None	None	Yes	No
1888655-1	2x8	Green	Green	Green	Green	No	No
1888655-2	2x8	Green	Green	Green	Green	No	Yes
1888655-3	2x8	Green	Green	Green	Green	Yes	Yes
1888655-4	2x8	Green	Green	Green	Green	Yes	No
1888655-5	2x8	Green	Green	Yellow	Yellow	No	Yes

reference purposes only. Specifications subject

to change.

Note: Part Numbers are RoHS compliant.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

20

Catalog 3-1773445-8 Revised 6-07 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

<u>o</u>

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

Low Profile RJ45 Modular Jacks

To meet the requirements for I/O connectors on AdvancedTCA and AdvancedMC cards, Tyco Electronics has released new low profile RJ45 modular jacks. The offset from the board is designed such that it fits in an AdvancedMC half height faceplate. These jacks are shielded and include panel ground springs for EMI containment. They are available in single port and 1x4 configurations, with and without LEDs, and are designed for GigE performance.



FEATURES

• Category 5e Performance

• Available in single port and 1x4 configurations

• Low profile meets half height requirements. 4.20 mm above PCB, 7.38 mm below PCB

Press-fit termination to the board

Available with various LED options

Part Number	Configuration	LED (Left)	LED (Right)
1888250-1	1x1	Green	Yellow
1888250-2	1x1	Green/Yellow	Green/Yellow
1888250-3	1x1	None	None
1888250-4	1x1	Green	Green
1888251-1	1x4	Green	Yellow
1888251-2	1x4	Green/Yellow	Green/Yellow
1888251-3	1x4	None	None
1888251-4	1x4	Green	Green

Note: Part Numbers are RoHS compliant.

to change.

Product Compliant to xTCA or AdvancedMC Specifications

21

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are in millimeters

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 Dimensions are shown for reference purposes only. Specifications subject

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Front & Rear I/O Connectors – SFP Modules

The SFP (Small Form-Factor Pluggable) supports hot swap of various types of fiber optics and copper based transceivers into host equipment. This allows the customer to have a flexible change between different protocols. The different applications are Fiber Channel, Ethernet, and Infiniband. SFP board cages exist in multiple versions that fit AdvancedTCA systems.

The one port cages are available in a one piece design (press-fit or solder) and a two piece design (press-fit, solder or SMT). Ganged versions (available in 1x6; 1x4; 1x2) are available with or without light pipes. The ganged product has the option of integrated host connector. Tyco Electronics is currently developing stacked versions (2x4 as primary option) that fit AdvancedTCA requirements.

www.tycoelectronics.com/product/atca www.sfp.tycoelectronics.com

Catalog 1773408 Flyer 1654720 / 1654095 / 1773078

FEATURES

- Products according to MSA (Multi-Source Agreement)
- Uses 20 positions PT connector
- Hot Swappable
- Three stage sequencing
- Supports data-rates up to 5 Gbps
- Chassis ground for pass through EMI protection to 12.5 Gbps
- Accepts copper and fiber optic transceivers

• Direct attach copper cable assemblies available with or without active equalization.



SFP Modules

Part Number	Port Configuration	Insertion Style	Connector Included	Height Profile
Stacked				
1658628-1	2x1	Press-fit	Yes	Low
1658629-1	2x4	Press-fit	Yes	Low
1658894-1	2x6	Press-fit	Yes	Low
Ganged				
1761014-1	1x2	Press-fit	No	_
1658744-1	1x4	Press-fit	No	—
1761015-1	1x6	Press-fit	No	—
Single				
6367035-1	1x1	Solder Tail	No	Standard
6367034-1	1x1	Solder Tail	No	Standard
1489669-1	1x1	Press-fit	No	Standard
1489779-1	1x1	Press-fit	No	Standard

Dimensions are shown for

Note: Part Numbers are RoHS compliant.

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated. Infiniband is a trademark of Infiniband Trade Association.

22

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise reference purposes only. specified. Values in brackets Specifications subject are U.S. equivalents. to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

or

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Front & Rear I/O Connectors — MRJ21 Receptacles

Tyco Electronics' MRJ21 receptacle is a high density I/O interconnect. This high density connector supports AdvancedMC Mid-size and Full-size module face plates and AdvancedTCA face plates. It can also be used for Rear I/O via Rear Transition Modules (RTMs), as well as in AdvancedTCA Zone 3 applications.

The MRJ21 connector is fully shielded and provides density savings for current 10/100 or GbE RJ45/RJ21 applications. The low profile and narrow width design will allow more ports to be packed into less space.

Tyco Electronics offers a full end-user solution with cleaner cabling solutions over RJ45s, and patch panels for plug-and-play environment, including data centers and zone cabled or open office environments.

www.tycoelectronics.com/products/atca

FEATURES • 1.5 to 3 times the port density of stacked Mod Jacks (RJ45). 3 times the port density of RJ21 Contact layout and footprint for differential pairs creates reduced cross-talk and built in compensation

 Connector is designed to meet or exceed Cat 5e cross-talk

• Fully shielded system to control EMI (Electro-magnetic Interference)

 Robust die cast cable covers provide 45 degrees left or right cable exit for ease of routing

• 1 mm pair spacing, 1.5 mm pair to pair spacing · Patch panels and cable manage-

ment solutions available

MRJ21 PCB Receptacles (48-position)

Panel Part Number Grounds 1761482-1 No 1761482-2 Yes 1761482-4 No

Note: Part Numbers are RoHS compliant.

AdvancedTCA — Thermal Products & Services

Thermal Interface Products are mandatory for reducing the waste heat and cooling the system in the most efficient way. Waste heat reduces the silicon chip reliability and performance. In addition to the products Tyco Electronics is offering such as Heat Sinks, Heat Pipes and CHIP COOLERs, in all shapes and sizes, Tyco Electronics offers state of the art Thermal Management Services. Thermal Management is the design practice of moving waste heat to locations that do not affect the equipment or overall device performance. Each Thermal Product can be fully customized to fulfill the specific requested system cooling requirements.

www.tycoelectronics.com/products/atca www.thermal.tycoelectronics.com

Catalog 1309431 Flyer 1308225

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets Specifications subject are U.S. equivalents. to change.

Dimensions are shown for USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 reference purposes only. C. America: 52-55-1106-0803



Product Compliant to xTCA or AdvancedMC Specifications



23





Receptacle Screwlocks

PCB Termination	Part Number	Panel Thickness	
Solder	1339381-1	< 1mm	
Solder	1339381-2	> 1mm to	
Press-Fit		< 2mm	

Screwlocks sold separately

FEATURES

profile solutions

products

reduction

approaches

Tyco Electronics thermal solutions

provide optimum cooling for

active components like BGA (Ball

Grid Array), MCM modules, opti-

Compatible to most AdvancedTCA

connector form factors, low

• Off the shelf as well as customized

· Heat pipe technology in combin-

• Advanced thermal conductive

polymer for weight and cost

• Full CFD (Computational Fluid

Dynamics) simulation and analysis, optimum Thermal design

analytical

numerical and

ation with passive heat sinks

cal modules and power devices

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

Low Profile DDR2 Connector for AdvancedTCA Standards

The new Tyco Electronics Low Profile DDR2 connector is designed for the main memory requirements on the AdvancedTCA carrier boards. Developed for use with a new VLP (Very Low Profile) module from Micron Technology, this connector meets the AdvancedTCA height limitations on the carrier board.

In addition, this connector offers a new ejector design that allows airflow to reach the memory module DRAMs for effective cooling.

Part Number 1888669-1

FEATURES

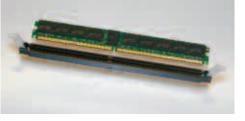
 Accepts new Micron Technology VLP (Very Low Profile) DDR2 memory module designed specifically for the AdvancedTCA carrier board

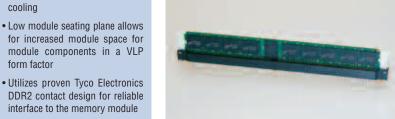
• Special designed ejectors that allow airflow to reach memory module DRAMs for efficient cooling

 Low module seating plane allows for increased module space for module components in a VLP form factor

DDR2 contact design for reliable interface to the memory module

_ **140.90** [5.547] Max.





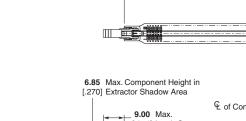
5.54

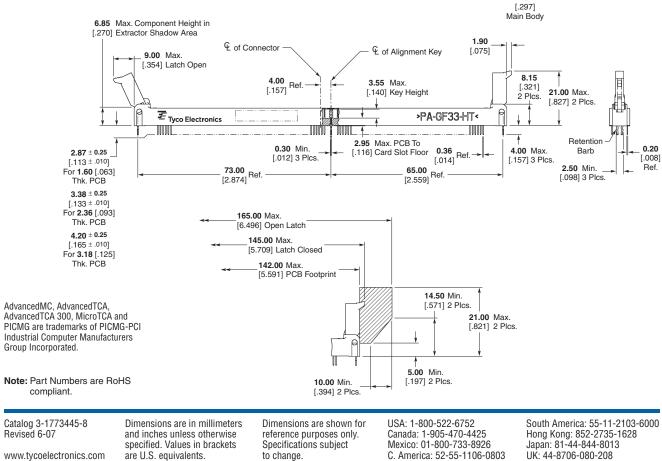
[.218] Extractor Towe

7.54

 Available in 3 solder tail lengths and contact interface plating options

1.30 ± 0.05 _ [.051 ± .002]





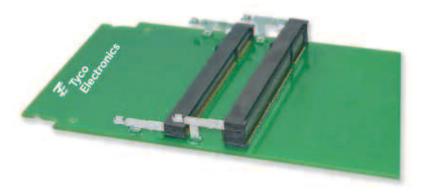
to change.

or

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

Small Outline Dual In-Line Memory Module (SO DIMM) for AdvancedMC Applications

The Small Outline Dual In-Line Memory Module (SO DIMM) is the latest in the Tyco Electronics DIMM product line and was specifically designed to meet the AdvancedMC Specification. The SO DIMM has 200 positions in a dual row design, and features gold flash solder tail contact plating. Available in two heights, the SO DIMM will fit any AdvancedMC Application.

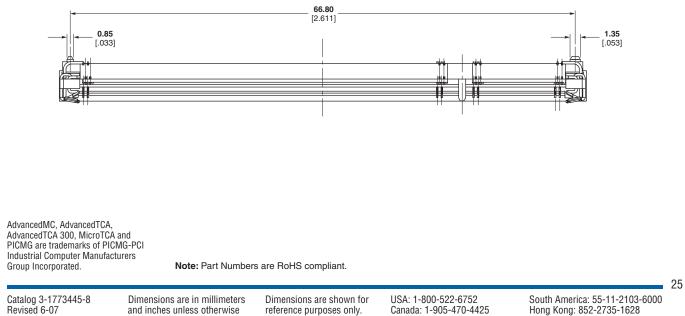


FEATURES

• 200 positions • Gold Flash Solder Tail Contact Plating

Part Number	Stack Height	Keying Feature
1981281-4	5.20 .203	Reverse
1981276-4	5.20 .203	Standard
1981287-4	9.20 .360	Reverse
1981284-4	9.20 .360	Standard

Part Number 1981281-4



Product Compliant to xTCA or AdvancedMC Specifications

www.tycoelectronics.com

and inches unless otherwise specified. Values in brackets are U.S. equivalents.

reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

1.0 mm Free Height (FH) (IEEE 1386) Connectors

As a standard for adding local PCI or Sbus performance to Futurebus+ and VMEbus applications, IEEE 1386 offers new levels of performance and packaging convenience through the mezzanine architecture.

Tyco Electronics makes it easier and more productive to add an IEEE 1386 mezzanine connector to your system. The surface-mount parallel stacking connector features contacts on a 1.0 [.039] pitch and is available in eight stacking heights from 8 [.315] to 15 [.591]. Sizes include the IEEE 1386 standard 64-position version and an optional 84-position version.

Not only is the connector compatible with EIA-700 AAAB — the connector standard for IEEE 1386 mezzanine connectors — it offers several enhancements that make it easier to use and more reliable. Increased plastic clearance between mating connectors makes it easier to align multiple connectors for mating, thus eliminating stress to the solder joints during engagement. Improved locating posts allow fast, highly accurate hand placement of connectors. The connectors are available with vacuum covers for automated placement.

Performance Characteristics

Current Rating -1.0 ampere per contact Contact Resistance — 30 milliohms max. (initial)

Durability — tested to 100 mating cycles min.

Product Specification 108-2246

1.0 mm FH (IEEE 1386) **Receptacles and Plugs** without Locating Posts, 1.0 [.039] Pitch

8 [.315] thru 15 [.591] Stacking Heights Material and Finish

Housing — Liquid crystal polymer, black

Contacts — Phosphor bronze; duplex plated 0.00076 [.000030] or .00127 [.00050] min. gold on contact area, 0.00381 [.000150] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel Vacuum Cover — Aluminum Allov

Technical Documents EIA-700 AAAB Specification

Application Specification 114-25045

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. to change.

FEATURES:

- For board stacking applications • High density packaging on
- 1.0 [.039] centerline spacing • Available in standard 64-position and optional 84-position sizes
- "Tape-and-reel" packaged per EIA standards
- Board stacking heights available from 8 [.315] to 15 [.591]
- Increased plastic clearance eliminates stress to solder joints

during mating Improved locating posts provide accurate hand or robotic placement

 Meets EIA-700 AAAB specifications for IEEE 1386 applications



No. of		Receptacle I	Part Number
Positions	Height	30µ" Au Plating w/ pickup cap	50µ" Au Plating w/ pickup cap
	5.37 .211	5120528-1	1-5120528-1
64	7.37 .290	5120529-1	1-5120529-1
04	8.37 .330	5120530-1	1-5120530-1
	10.37 .408	5120531-1	1-5120531-1
	5.37 .211	5120528-2	1-5120528-2
84	7.37 .290	5120529-2	1-5120529-2
04	8.37 .330	5120530-2	1-5120530-2
	10.37 .408	5120531-2	1-5120531-2

Notes: 1. Shorter solder lands may be used per EIA-700 AAAB. However, the 2.4 [.094] length assures optimum solder fillet regardless of connector manufacturer.

No. of		Plug Par	t Number
Positions	Height	30µ" Au Plating w/ pickup cap	50µ" Au Plating w/ pickup cap
	6.35 .250	5120532-1	1-5120532-1
64	7.35 .289	5120533-1	1-5120533-1
	8.35 .329	5120534-1	1-5120534-1
	6.35 .250	5120532-2	1-5120532-2
84	7.35 .289	5120533-2	1-5120533-2
	8.35 .329	5120534-2	1-5120534-2

Notes: 1. Shorter solder lands may be used per EIA-700 AAAB. However

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated

the 2.7 [.106] length assures optimum solder fillet regardless of connector manufacturer.

Note: Part Numbers are RoHS compliant.

Dimensions are shown for USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 reference purposes only. Specifications subject C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK 44-8706-080-208

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Power Distribution & Management Modules

Tyco Electronics Power Systems introduces the industry's first power input management solution for AdvancedTCA boards. The AdvancedTCA power input module (PIM) is designed in collaboration with industry leading AdvancedTCA board manufacturers and provides innovative features and compact design. PIM modules incorporate all the features required by AdvancedTCA specifications (PICMG 3.0) and enable designers to save valuable board real estate and reduce overall board cost and time to market compared to discrete solutions.

A Complete Power Architecture

PIM series along with Tyco Electronics' isolated DC/DC and bus converters and point of load modules, provide a complete and low-cost power architectural solution while complying with AdvancedTCA board power requirements.

www.tycoelectronics.com/products/atca www.power.tycoelectronics.com

Flyer PIM05-001

FEATURES

- 200/300 W of power (per PICMG 3.0)
- Inrush control protection
- Integrated EMI filter designed to meet CISPR Class B Limits • Directive 2002/95/EC RoHS com-
- pliant
- •8 W of Isolated auxiliary power supply for IPMI (3.3 V or 5 V)
- O-Ring FETs for -48 V A&B feeds
- A/B feed loss alarm
- Hot-swap control
- 72 V charging voltage for holdup/ bulk capacitors
- Through-hole and surface mount (SMT) versions
- Input under-volt age protections
- Over current an
- tions • UL/CSA/CE/VE

3.3V

to change.

tage and over-volt-	Parts count
0	Design-in time
nd thermal protec-	Assembly cost
iu illelliai piotec-	Yield/Repair cost
	Time to market
DE approved	Standard off-shelf part

PICMG 3.0 compliant

Fully qualified

Fully tested & burned-in

					fundara on shon par	ι	10	5		140
(PIM	200/P	MI	300					
	ises	A/B FETs	EMI Filter		Inrush Control			Q	rco BW	12V
I_A/B		MGMT PWR	Alarms		72V Cap Output	C	bulk		/DC	BLE

Device Code	Input Voltage	Output Power	V _{mg/mt} Output	Connector Type	Comcode
PIM200FZ	-48 V (-38 to -75 V DC)	200 W	-3.3 V DC	Thru Hole	CC109101813
PIM200AZ	-48 V (-38 to -75 V DC)	200 W	-5.0 V DC	Thru Hole	CC109106762
PIM300FZ	-48 V (-38 to -75 V DC)	300 W	-3.3 V DC	Thru Hole	CC109113858
PIM300AZ	-48 V (-38 to -75 V DC)	300 W	-5.0 V DC	Thru Hole	CC109122322

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

-48V

VRTN

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for reference purposes only. Specifications subject C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

PIM

Yes

Yes

Yes

Lower

Lower

Lower

Lower

Yes

IPM

Discrete

Board level

Board level

Board level

> 100

Higher

Higher

Higher

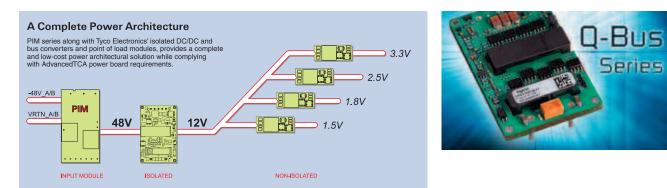
Higher

No

Product Compliant to xTCA or AdvancedMC Specifications

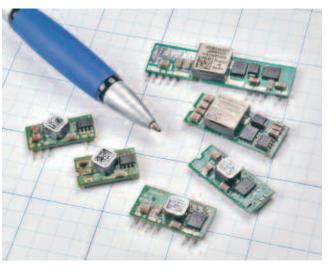
Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Power Distribution & Management Modules (Continued)



Isolated Bus Converters										
Full Featured DC-DC Converter Series	Output Power (W)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Efficiency (%)	Current Share	Form Factor	Connection Type	Base Plate	
EQW006A0B	72 W	6 A	48 V (36 – 75)	12 V (11.6 – 12.4)	92 %	No	Eight-Brick	TH/SMT	No	
EQW010A0B	120 W	10 A	48 V (36 - 75)	12 V (11.4 – 12.6)	93 %	No	Eight-Brick	TH	Yes	
QBW018A0B	200 W	18 A	48 V (36 – 75)	12 V (11.4 – 12.6)	94 %	Yes	Qtr-Brick	TH	Yes	
QBW025A0B	300 W	25 A	48 V (36 – 75)	12 V (11.4 – 12.6)	94 %	Yes	Qtr-Brick	TH	Yes	
JRB017A0B	200 W	17 A	48 V (36 – 75)	12 V (11.7 – 12.3)	92 %	Yes	Half-Brick	TH	Yes	

Non-Isolated	DC-DC Co	nverters							
Austin Lynx Series	Output Current (A)	Input Voltage Range (V)	Output Voltage Range (V)	Efficiency (%)	Output Programmable	Remote On/Off	Remote Sense	EZ- Sequence	Connector Type
Austin MiniLynx	3 A	8.3 – 14 V	0.75 – 5.0 V	91 %	Yes	Yes	No	No	SIP/SMT
Austin MicroLynx	5 A	10 – 14 V	0.75 – 5.0 V	89 %	Yes	Yes	No	No	SIP/SMT
Austin Lynx	10 A	10 – 14 V	0.75 – 5.0 V	93 %	Yes	Yes	Yes	No	SIP/SMT
Austin SuperLynx	16 A	10 – 14 V	0.75 – 5.0 V	92 %	Yes	Yes	Yes	No	SIP/SMT
Austin Lynx II Series	Output Current (A)	Input Voltage Range (V)	Output Voltage Range (V)	Efficiency (%)	Output Programmable	Remote On/Off	Remote Sense	EZ- Sequence	Connector Type
Austin MicroLynx II	6 A	8.3 – 14 V	0.75 – 5.0 V	89 %	Yes	Yes	No	Yes	SIP/SMT
Austin Lynx II	10 A	8.3 – 14 V	0.75 – 5.0 V	93 %	Yes	Yes	Yes	Yes	SIP/SMT
Austin SuperLynx II	16 A	8.3 – 14 V	0.75 – 5.0 V	92 %	Yes	Yes	Yes	Yes	SIP/SMT
Austin MegaLynx II	25 A	6.0 - 14 V	0.80 – 3.3 V	92.5 %	Yes	Yes	Yes	Yes	SIP/SMT



AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

28

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 Dimensions are shown for reference purposes only. Specifications subject

Part Number Index

Note: This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

Part No.	Page	Part No.	Page	Part No.	Page
120943	11	1761014	22	1934226	12
120954	11	1761015	22	1934229	12
120955	11	1761482	23	1981276	25
120956	11	1766500	5, 6	1981281	25
120957	11	1766501	5, 6	1981284	25
120958	11	1766502	6	1981287	25
1339381	23	1766503	6	5120528	26
1367703	13	1888250	21	5120529	26
1469269	15	1888251	21	5120530	26
1469372	15	1888506	20	5120531	26
1469373	15	1888507	20	5120532	26
1469374	15	1888508	20	5120533	26
1469387	15	1888509	20	5120534	26
1469388	15	1888652	20	5223961	11
1469735	12	1888653	20	5223963	11
1469737	12	1888654	20	6367034	22
1469793	12	1888655	20	6367035	22
1469795	12	1888669	24	6469001	7, 8, 10
1469820	16	1888765	14	6469002	7, 9
1469920	18	1888766	14	6469046	ç
1469921	19	1934018	12	6469048	10
1469922	19	1934021	12	6469061	8
1469974	12	1934026	12	6469062	ç
1469977	12	1934029	12	6469074	ç
1489669	22	1934034	12	6469099	ç
1489779	22	1934037	12	6469286	8
1658628	22	1934218	12	6469287	g
1658629	22	1934221	12	6469294	8
1658744	22	1934222	12	6469296	9
1658894	22	1934225	12	6469375	10

Tooling Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page
91347-1	8	91349-4	9	1583224-4	8
91347-2	8	91378-1	10	1583237-1	9
91347-3	8	91378-3	10	1583248-1	8
91347-4	8	1583220-1	9	1583255-1	9
91349-1	9	1583224-1	8	1804174-1	10
91349-2	9	1583224-2	8	1804177-1	10
91349-3	9	1583224-3	8		

Catalog 3-1773445-8 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

to change.

Dimensions are shown for reference purposes only. Specifications subject USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

29

Tyco Electronics "At Your Service"

Need more information?

Call Technical Support at the numbers listed on the next page.

Technical Support is staffed with specialists well versed in all Tyco Electronics products. They can provide you with:

Technical Support

Catalogs

Technical Documents

Product Samples

Tyco Electronics Authorized Distributor Locations

Website

At www.tycoelectronics.com

you'll find many useful applications and plenty of product information

Product News —

The latest information on new developments from various Tyco Electronics brands. Industries —

Use our industry pages to quickly find the right product for your application.

Products —

Discover information on our vast array of products ranging from Amplifiers to Wire & Cable.

Customer Service and Support –

Find contact numbers for Customer Service and Product Information Help Desks plus FAQs and online technical assistance.

Product Websites

www.tycoelectronics.com/products/atca www.tycoelectronics.com www.elastomerictech.com www.power.tycoelectronics.com www.antenna.tycoelectronics.com www.hmzd.tycoelectronics.com www.mpi.tycoelectronics.com www.thermal.tycoelectronics.com www.multigigrt.tycoelectronics.com www.elconproducts.com www.tycoelectronics.com/fiberoptics

AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Catalog 3-1773445-8 Revised 6-07

30

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise reference purposes only. Specifications subject specified. Values in brackets are U.S. equivalents. to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 Dimensions are shown for



Americas

 Argentina
 – Buenos Aires

 Phone:
 +54-11-4733-2200

 Fax:
 +54-11-4733-2211

Brasil – São Paulo Phone: +55-11-3611-1311 Fax: +55-11-3611-0397

Asia/Pacific Australia – Sydney

(Technical Support)

India – Bangalore

Indonesia – Jakarta

Phone: +65-6482-0311 Fax: +65-6482-1012

Fax:

Phone: +61-2-9554-2600 Fax: +61-2-9502-2556

Product Information Center:

Phone: +61-2-9840-8200

Fax: +61-2-9634-6188

Phone: +91-80-285-40800

+91-80-285-40820

 Canada – Toronto

 Phone:
 +905-475-6222

 Fax:
 +905-474-5520

 Product Information Center:
 (Technical Support)

Phone: +905-470-4425 Fax: +905-474-5525

 Colombia
 – Bogota

 Phone:
 +57-1-231-9398

 Fax:
 +57-1-660-0206

Phone: +81-44-844-8111 Fax: +81-44-812-3207

Product Information Center

Phone: +82-2-3415-4500

Malaysia – Kuala Lumpur

Phone: +60-3-78053055 Fax: +60-3-78053066

+81-44-844-8013

+81-44-812-3200

+82-2-3486-3810

Japan – Toyko

(Technical Support)

Korea - Seoul

Phone:

Fax:

Fax:

 Mexico – Mexico City

 Phone:
 +52-55-1106-0800

 +01-800-733-8926

 Fax:
 +52-55-1106-0901

 United States – Harrisburg, PA

 Phone:
 +717-564-0100

 Fax:
 +717-986-7575

 Product Information Centers:
 (Technical Support)

 Phone:
 +800-522-6752

 Fax:
 +717-986-7575

New Zealand – Auckland

Phone: +64-9-634-4580 Fax: +64-9-634-4586

Philippines – Makati City Phone: +632-848-0171

People's Republic of China

Hong Kong Phone: +852-2735-1628 Fax: +852-2735-0243

Shanghai Phone: +86-21-2407-1588 Fax: +86-21-2407-1599

Phone: +886-2-8768-2788

+886-2-8768-2268

Taiwan – Taipei

Fax:

+632-867-8661

Fax:

 For Latin/South American

 Countries not shown

 Phone:
 +54-11-4733-2015

 Fax:
 +54-11-4733-2083

Global Contacts

Singapore – Singapore Phone: +65-6482-0311 Fax: +65-6482-1012

 Thailand
 Bangkok

 Phone:
 +66-2-955-0500

 Fax:
 +66-2-955-0505

 Vietnam
 Indochina

 Ho Chi Minh City

 Phone:
 +84-8 930-5546

 Fax:
 +84-8 930-3443

Europe/Middle East/Africa

Austria – Vienna Phone: +43-1 90 5 60-0 Fax: +43-1 90 5 60-1333

Belgium – Kessel-Lo Phone: +32-16-35-23-00 Fax: +32-16-35-23-52

Bulgaria – Sofia Phone: +359-2-971-2152 Fax: +359-2-971-2153

 Czech Republic – Kurim

 Phone:
 +420-5-41-162-111

 Fax:
 +420-5-41-162-223

Denmark – Glostrup Phone: +45-43-480-452 Fax: +45-43-441-414

Egypt – Cairo Phone: +20-2-29 04 281 Fax: +20-2-41 92 334

Estonia – Tartu Phone: +372-5138-274 Fax: +372-7400-779

Finland – Helsinki Phone: +358-95-12-34-20 Fax: +358-95-12-34-250

 France
 Cergy-Pontoise

 Phone:
 +33-1-3420-8888

 Fax:
 +33-1-3420-8600

 Product Information Center:
 (Technical Support)

Phone: +33-1-3420-8943 Fax: +33-1-3420-8623 (Technical Support) Phone: +49-6251-133-1999 Fax: +49-6251-133-1988

Germany – Langen Phone: +49-6103-709-0 Fax: +49-6103-709-1223

Germany – Speyer Phone: +49-6232-30-0 Fax: +49-6232-30-2243

 Germany - HTS Division – Neunkirchen

 Phone:
 +49-2247-305-0

 Fax:
 +49-2247-305-122

 Greece
 Athens

 Phone:
 +30-210-9370-396/397

 Fax:
 +30-210-9370-655

 Hungary
 – Budapest

 Phone:
 +36-1-289-1000

 Fax:
 +36-1-289-1010

 Ireland
 – Dublin

Phone: +353-1-820-3000 Fax: +353-1-820-9790 Israel – Yokneam

Phone: +972-4-959-0508 Fax: +972-4-959-0506

Italy – Collegno (Torino) Phone: +39-011-4012-111 Fax: +39-011-4031116 Lithuania – Vilnius Phone: +370-5-2131-402 Fax: +370-5-2131-403

 Netherlands
 - 's-Hertogenbosch

 Phone:
 +31-73-624-62-46

 Fax:
 +31-73-621-23-65

 Product Information Center:
 (Technical Support)

 Phone:
 +31-73-6246-999

 Fax:
 +31-73-624-699

Norway – Nesbru Phone: +47-66-77-8886 Fax: +47-66-77-8855

Poland – Warsaw Phone: +48-22-45-76-700 Fax: +48-22-45-76-720

 Romania
 Bucharest

 Phone:
 +40-21-311-3479/3596

 Fax:
 +40-21-312-0574

 Russia - Moscow

 Phone:
 +7-495-926-5506/07/08/09

 Fax:
 +7-495-926-5505

Russia – St. Petersburg Phone: +7-812-718-8192 Fax: +7-812-718-8193

 Slovenia – Ljubljana

 Phone:
 +386-1561-3270

 Fax:
 +386-1561-3240

 South Africa – Port Elizabeth

Phone: +2741-503-4500 Fax: +2741-581-0440 Spain – Barcelona Phone: +34-93-291-0330 Fax: +34-93-201-7879 Product Information Center: (Technical Sunnort):

(Technical Support): Phone: +34-93-291-0330 Fax: +34-93-200-3779

Sweden – Upplands Väsby Phone: +46-8-50-72-50-00 Fax: +46-8-50-72-50-01

Switzerland – Steinach Phone: +41-71-447-0447 Fax: +41-71-447-0444

Turkey – IstanbulPhone:+90-212-281-8181/2/3Fax:+90-212-281-8184

Ukraine – Kiev Phone: +380-044-206-2265 Fax: +380-044-206-2264

Fax: +44-208-420-8081
For Middle East/African Countries

Not Shown Phone: +33-1-3420-8866 Fax: +33-1-3420-8300

Tyco Electronics Corporation www.tycoelectronics.com



Tyco Electronics Corporation Harrisburg, PA

tycoelectronics.com

3-1773445-8-2.5M-LUG-FP-6-07







X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for I/O Connectors category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below :

 571763P
 58098-0628
 72.250.1628.2
 72.250.2428.2
 74720-0505
 76.350.0729.0
 76871-1403
 FCN-244F080-G/1
 FCN-260A9920
 PCR

 E36PM
 PCS-XE26MA+
 G38A71314B
 1571250010
 157-22500-3
 MS3471L14-19P L/C
 172501-4002
 172501-6002
 FCN-260C008-A/L0

 FCN-260C024-AL0
 FCN-261Z008
 2000314-1
 200331-1
 PCR-E36FC+
 PCS-E28FS+
 PCS-XE26SLFD+
 PCS-XE26SLFDT+

 G730VID08BDC24
 U90B2054081210
 38113800006
 DP3AR020WQ1R200
 Z4.102.0680.0
 500-1052
 500-1054
 ZP-4008-66L

 0709821002
 DX40-20P(55)
 5554841-1
 MS3474W18-8P-LC*
 U90B3054061110
 U65-E04-4020
 ZPF000000000097891
 747360449

 10099439-003C-TRLF
 10137239-0011LF
 70289-001LF
 70.060.1028.0
 109029-ZZ