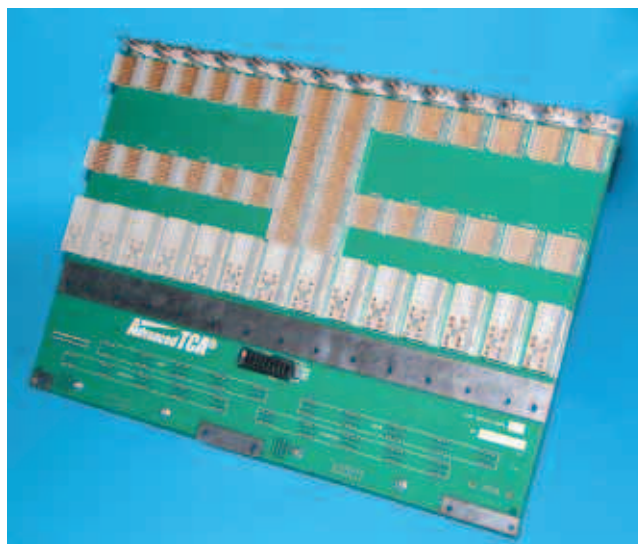




Tyco Electronics
Our commitment. Your advantage.

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.

Need more information?

Call Technical Support at the numbers listed below.

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

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

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

Introduction (Continued)



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.

AdvancedTCA® 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 wide-range 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

© 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
Group Incorporated.

Infiniband is a trademark of Infiniband
Trade Association.

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

Disclaimer

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 dis-
claims all implied warranties regarding
the information contained herein, includ-
ing, but not limited to, any implied war-
ranties of merchantability or fitness for
a particular purpose. Tyco Electronics'
only obligations are those in the
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-
ability of, and test each product for, their
application.

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.
Buyer must comply with all applicable
export laws of all applicable jurisdictions.

**See inside back cover for Global
Contacts and phone numbers.**

Table of Contents

Introduction to AdvancedTCA, MicroTCA, and AdvancedMC Standards	2, 3
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications	
AdvancedTCA — Zone 1 Power Connectors	5, 6
AdvancedTCA — Zone 2 Z-PACK HM-Zd High Speed Signal Connectors	7-9
AdvancedTCA — Zone 3 RTM Board Connector	10
Co-Planar UPM for AdvancedTCA Zone 3 Power Applications	11
Z-PACK TinMan Connectors for AdvancedTCA Standards — Zone 3	12
AdvancedTCA — Advanced Mezzanine Card (AdvancedMC) Connectors	13
MULTI-BEAM XL Connectors for AdvancedTCA 300 Standard	14
AdvancedTCA — Guide Modules	15
Product Defined in MicroTCA Specification	
Vertical AdvancedMC Connector for MicroTCA Applications	16
MINIPAK HD Power Connectors	17-19
Product Compliant to xTCA or AdvancedMC Specifications	
Stacked RJ45 Modular Jacks for AdvancedTCA, AdvancedMC Standards	20
Low Profile RJ45 Modular Jacks	21
AdvancedTCA — Front & Rear I/O Connectors — SFP Modules	22
AdvancedTCA — Front & Rear I/O Connectors — MRJ21 Receptacles	23
AdvancedTCA — Thermal Products & Services	23
Low Profile DDR2 Connector for AdvancedTCA Standards	24
SO DIMM Connectors for AdvancedMC Applications	25
1.0 mm Free Height (FH) (IEEE 1386) Connectors	26
AdvancedTCA — Power Distribution & Management Modules	27, 28
Part Number Index	29
Web Site Information	30
Global Contacts	31

Restriction on the use of Hazardous Substances (RoHS)

At Tyco Electronics, we're ready to support your RoHS require-
ments. We've assessed more than 1.5 million end items/com-
ponents for RoHS compliance, and issued new part numbers
where any change was required to eliminate the restricted
materials. 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 defini-
tion 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.

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

RoHS
Customer
Support
Center



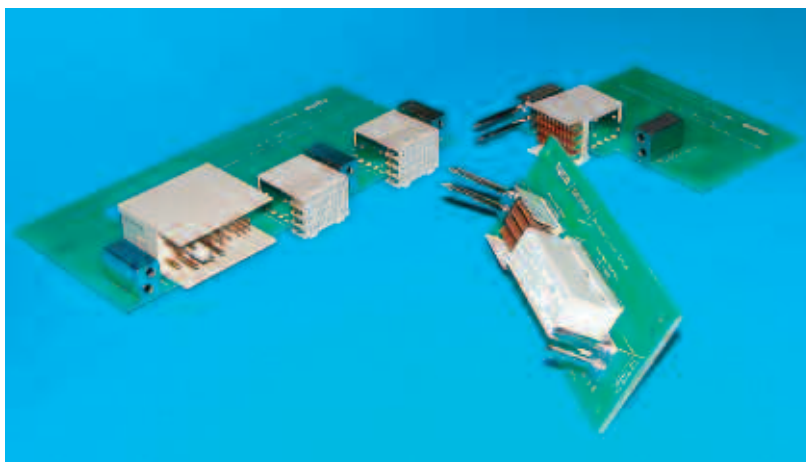
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications

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



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.

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

AdvancedTCA Zone 1 Connector

(Continued)

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

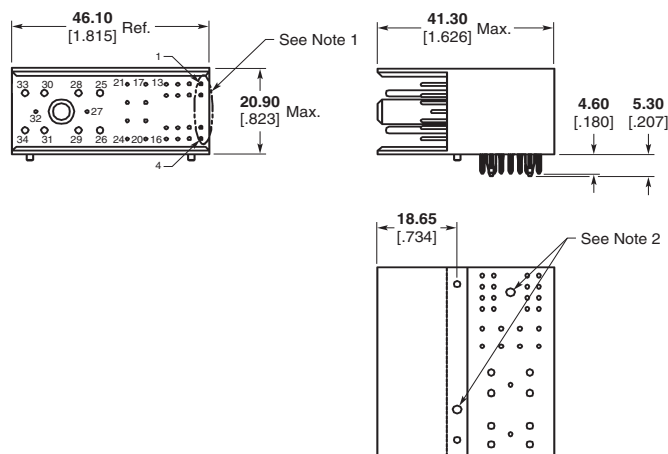
Signal Pins — Copper alloy

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 ($\varnothing$ 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

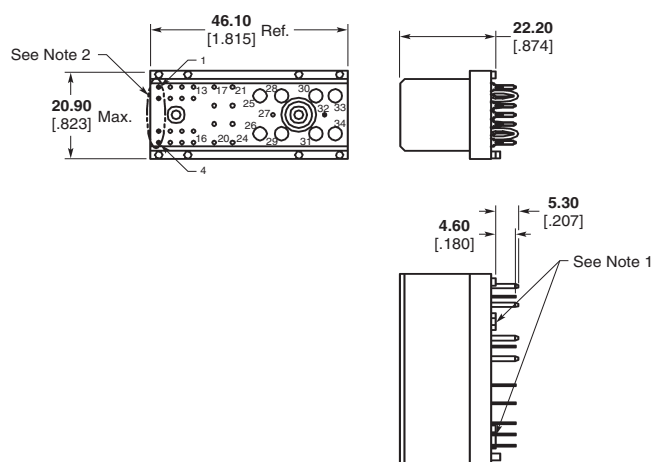
Signal Pins — Copper alloy

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 ($\varnothing$ 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.



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).

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

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

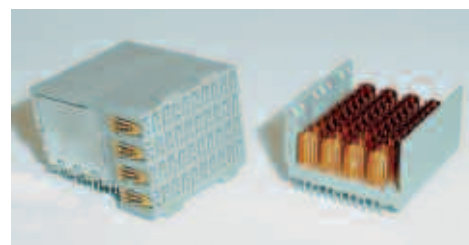
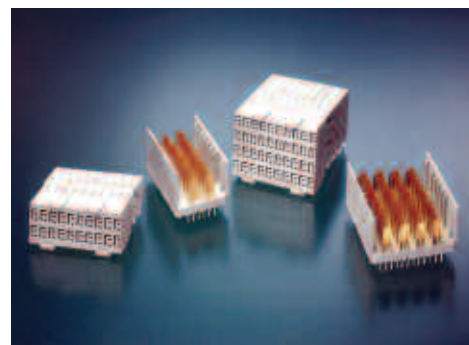
Z-PACK HM-Zd product from Tyco Electronics is the high-speed, Advanced Differential Fabric Connector system specified by PICMG for use in AdvancedTCA Zone 2. The coplanar application version using the right angled male and identical Zone 2 card connector (right angled female), can be used in Zone 3.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

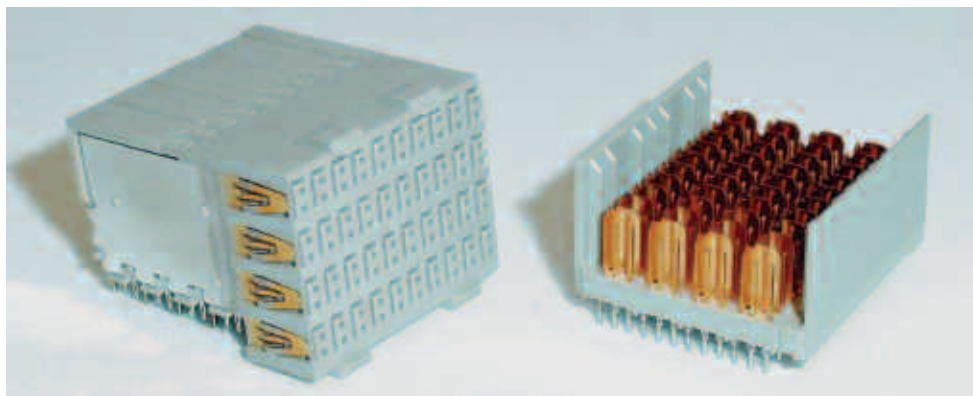
- Designed specifically for high-speed differential applications (3.125 Gb/s to 10+Gb/s)
- A modular connector system with a standard module size of 25.00 [.984]
- Z-PACK HM-Zd product is an extension of the Z-PACK 2 mm HM product line
- Pin header and receptacle have the exact same footprint to simplify 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



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

Backplane Connector

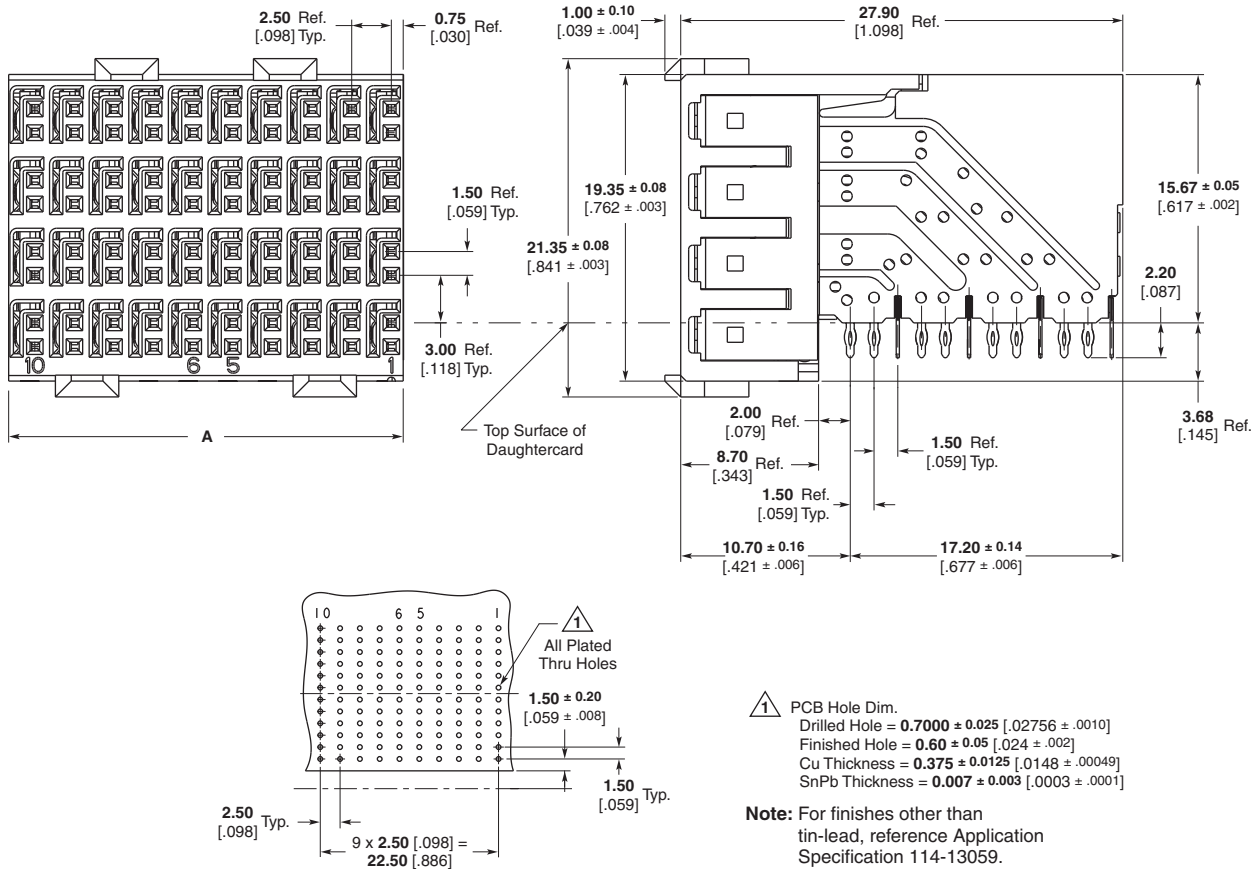
AdvancedMC, AdvancedTCA,
AdvancedTCA 300, MicroTCA and
PICMG are trademarks of PICMG-PCI
Industrial Computer Manufacturers
Group Incorporated.

Note: Part Numbers are RoHS compliant.

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

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

4 Pair Right Angle Receptacle Assemblies



Part Number	Column Count	Module Length (Dim. A)	Signals	Grounds	Application Tooling		
					Insertion Receptacle	Repair Housing Removal	Repair 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.

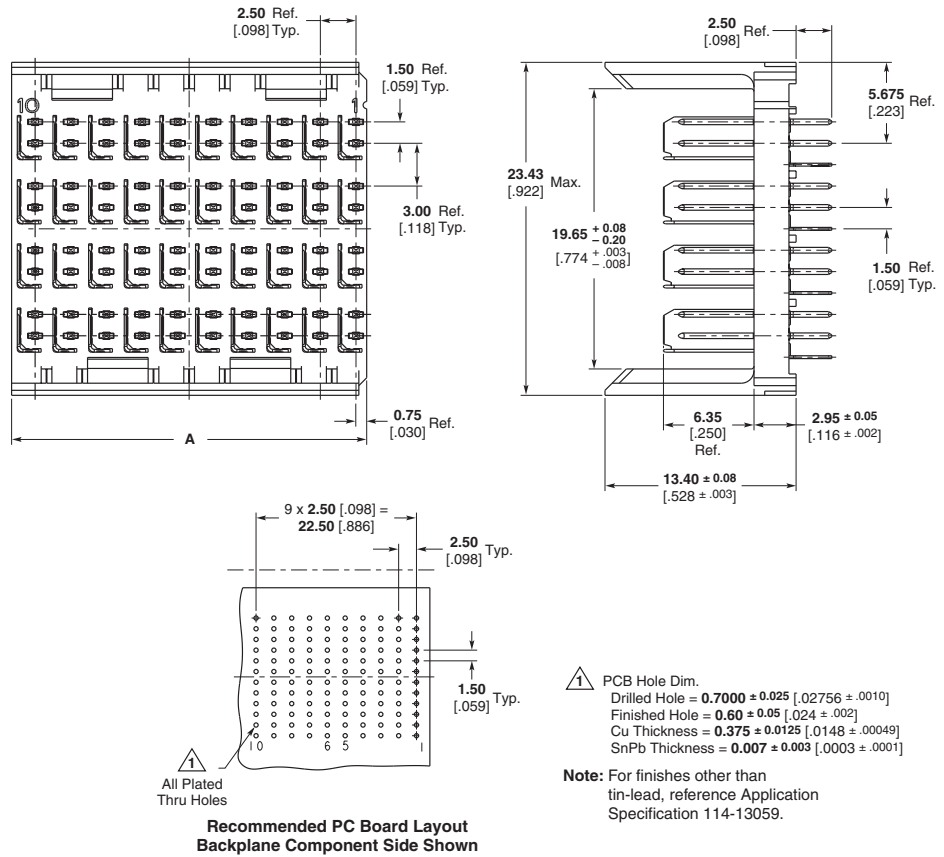
Note: Part Numbers are RoHS compliant.

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

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

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

4 Pair Vertical Pin Header Assemblies



Part Number	Tail Length	Mating Pin Length	Column Count	Module Length (Dim. A)	Signals	Grounds	Application Tooling			
							Insertion	Pin Removal	Repair	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].

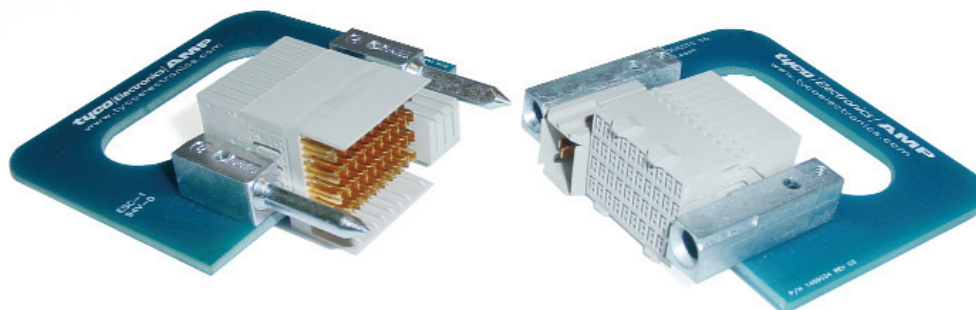
Note: Part Numbers are RoHS compliant.

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

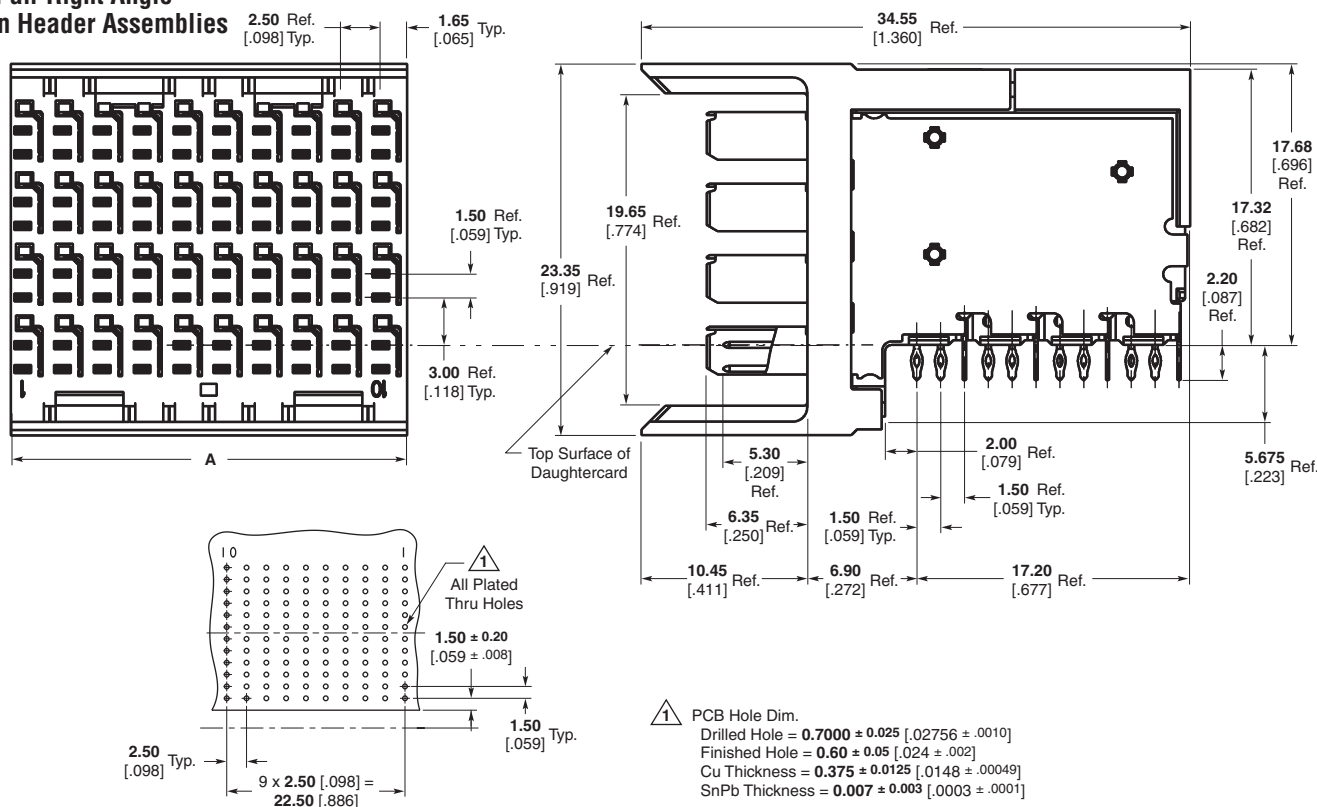
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

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

AdvancedTCA Zone 3
Z-PACK HM-Zd
High Speed, Co-Planar
RTM Board Connector
4 Pair Right Angle Header
Part Number 6469048-1
Part Number 6469375-1
Front Board Connector
4 Pair Right Angle
Receptacle
Part Number 6469001-1
(see page 8)



4 Pair Right Angle Pin Header Assemblies



Recommended PCB Board Layout
Component Side Shown

Part Number	Tail Length	Mating Pin Length	Column Count	Module Length (Dim. A)	Signals	Grounds	Application Tooling		
							Insertion Pin Header	Housing Removal	Repair 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.

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.

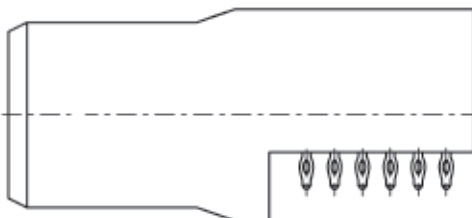
FEATURES

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



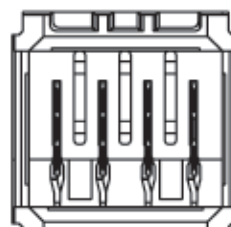
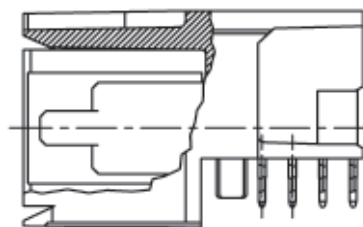
Right Angle Receptacle

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
3	12.00 .472	M,M,M	5-5223961-1
		M,L,M	5-5223963-1
		**	**
4	15.00 .591	L,L,L,L	120954-1
		L,M,S,S	120954-2
		**	**
5	18.00 .709	L,L,L,L,L	120955-1
		M,M,L,M,M	120955-2
		**	**
6	21.00 .827	L,L,L,L,L,L	120956-1
		L,M,S,S,S,S	120956-2
		**	**
7	24.00 .945	L,L,L,L,L,L,L	120957-1
		L,S,S,L,S,S,L	120957-2
		**	**
8	27.00 1.063	L,L,L,L,L,L,L,L	120958-1
		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.

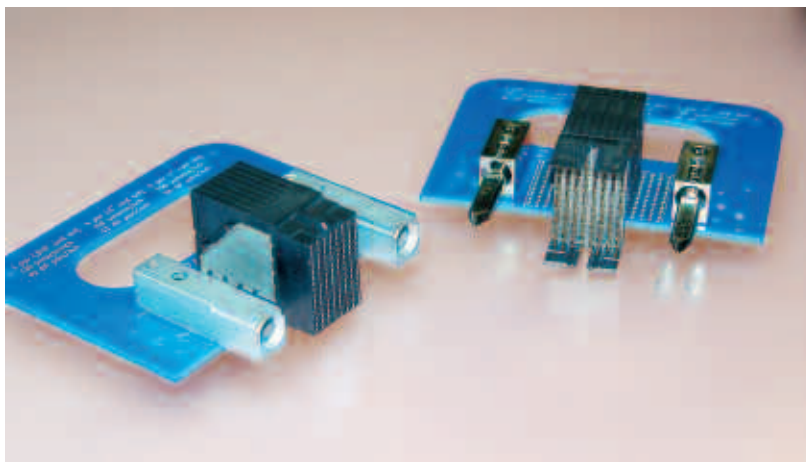
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

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.

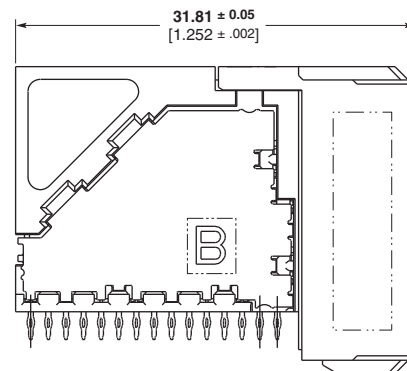
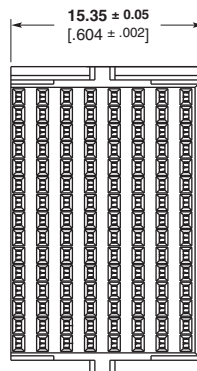
FEATURES:

- 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



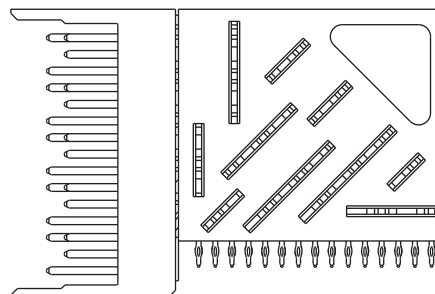
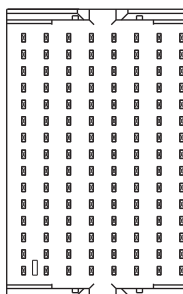
Z-PACK TinMan Receptacles

No. of Pairs	Columns	Part Number	Dimensions	
			Length	Width
3	8	1934226-1	31.81 1.25	15.35 .604
	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 Pairs	Columns	Part Number	Dimensions		End Walls
			Length	Width	
3	8	1469974-1	31.81 1.25	15.35 .604	N
		1469977-1	31.81 1.25	18.05 .710	Y
	16	1934034-1	31.81 1.25	30.55 1.203	N
		1934037-1	31.81 1.25	33.25 1.31	Y
4	8	1469793-1	31.81 1.25	15.35 .604	N
		1469795-1	31.81 1.25	18.05 .710	Y
	16	1934026-1	31.81 1.25	30.55 1.203	N
		1934029-1	31.81 1.25	33.25 1.31	Y
5	8	1469735-1	31.81 1.25	15.35 .604	N
		1469737-1	31.81 1.25	18.05 .710	Y
	16	1934018-1	31.81 1.25	30.55 1.203	N
		1934021-1	31.81 1.25	33.25 1.31	Y



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

Note: Part Numbers are RoHS compliant.

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

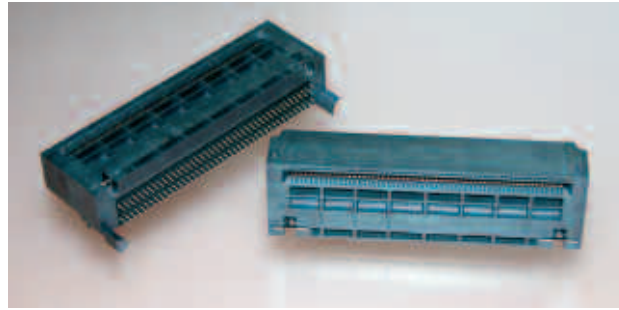
108-2277

Application Specification

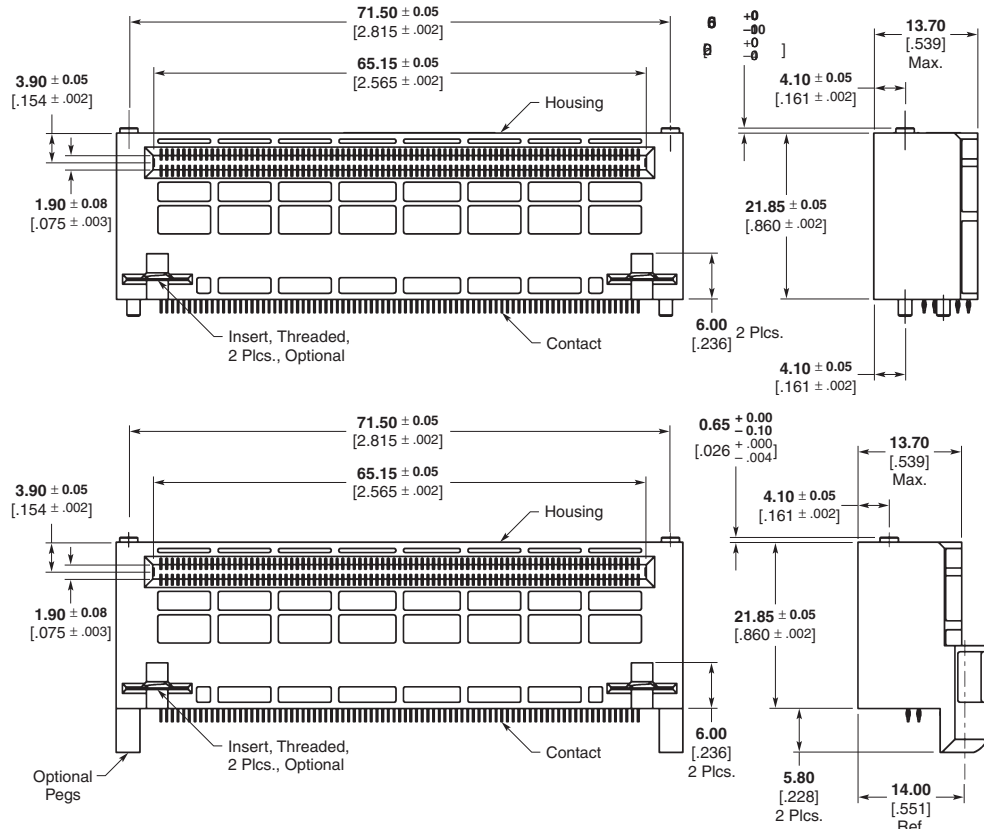
114-13181

FEATURES

- B+ style available now
- A+B+ styles planned
 - Targeted for high-speed differential 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



Part Number	Plating	Inserts	Pegs
1367703-1●	SnPb	No	No
1367703-2	Sn	No	No
1-1367703-1●	SnPb	Yes	No
1-1367703-2	Sn	Yes	No
2-1367703-1●	SnPb	No	Yes
2-1367703-2	Sn	No	Yes
3-1367703-1●	SnPb	Yes	Yes
3-1367703-2	Sn	Yes	Yes

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

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

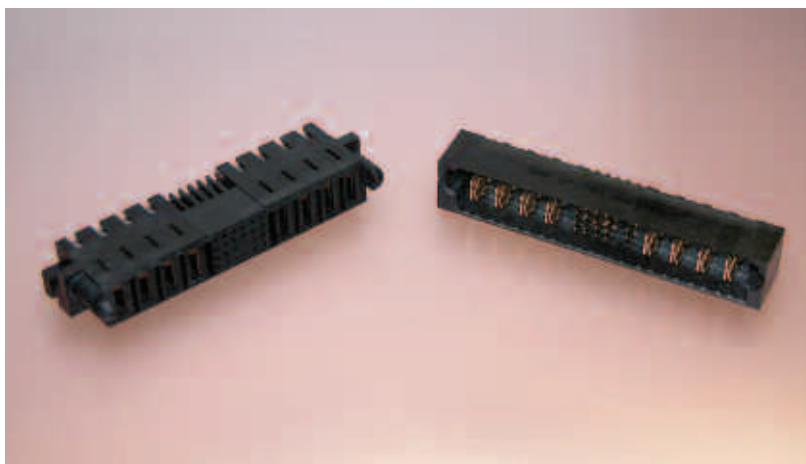
Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

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:

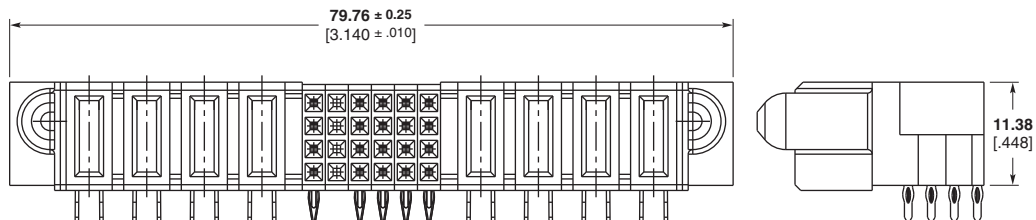
- Meets the AdvancedTCA 300 Specification
- 55 Amp Single Power Contact, 4 Amp Single Signal Contact
- Solder or Press-Fit termination to PCB
- Specially sequenced for the AdvancedTCA Specification
- Custom configurable modular design



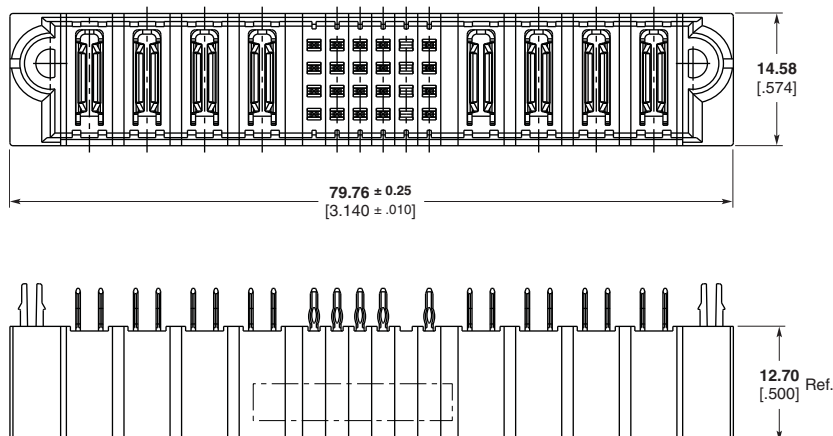
PEM Connector

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)



Backplane Connectors



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

Note: Part Numbers are RoHS compliant.

Product Defined in AdvancedTCA/AdvancedTCA 300 Specifications (Continued)

AdvancedTCA — Guide Modules

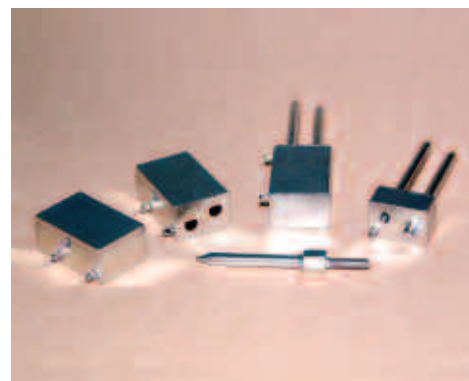
Tyco Electronics AdvancedTCA Guide Modules are available in various sizes and configurations and are suitable for use in a wide variety of applications including front board, mid plane, backplane, and a Rear Transition Module as specified in the AdvancedTCA specification. The guide hardware features 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

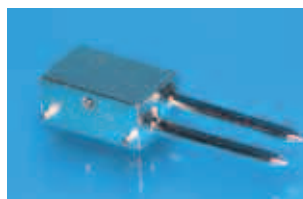


AdvancedTCA Guide/ Keying Modules

The AdvancedTCA Guide Modules can be used in a wide variety of applications. For *motherboard-to-daughtercard 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.



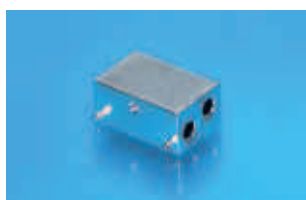
rA1



A2 (RTM)



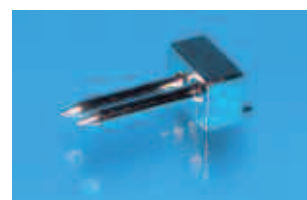
K1/K2



rK1



A1



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

Note: Part Numbers are RoHS compliant.

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

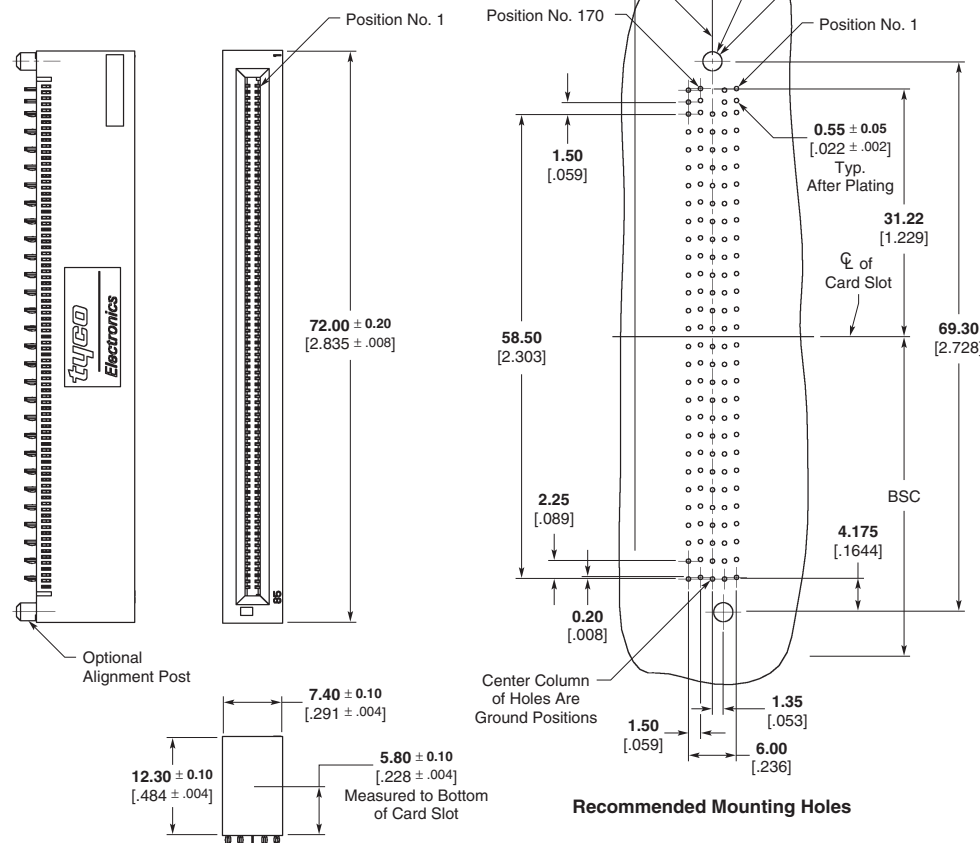
Vertical AdvancedMC Connector for MicroTCA Applications

- 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



114-13180

Part Number	Tail Plating	Alignment Post
1469820-1	Tin	No
1469820-2	Tin	Yes
1469820-3●	Tin-Lead	No
1469820-4●	Tin-Lead	Yes



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).

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

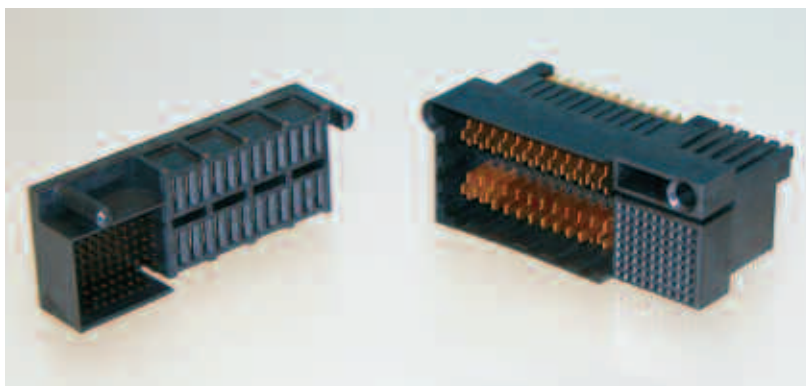
Maximum Continuous Operating Temperature — 100°C

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:
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



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

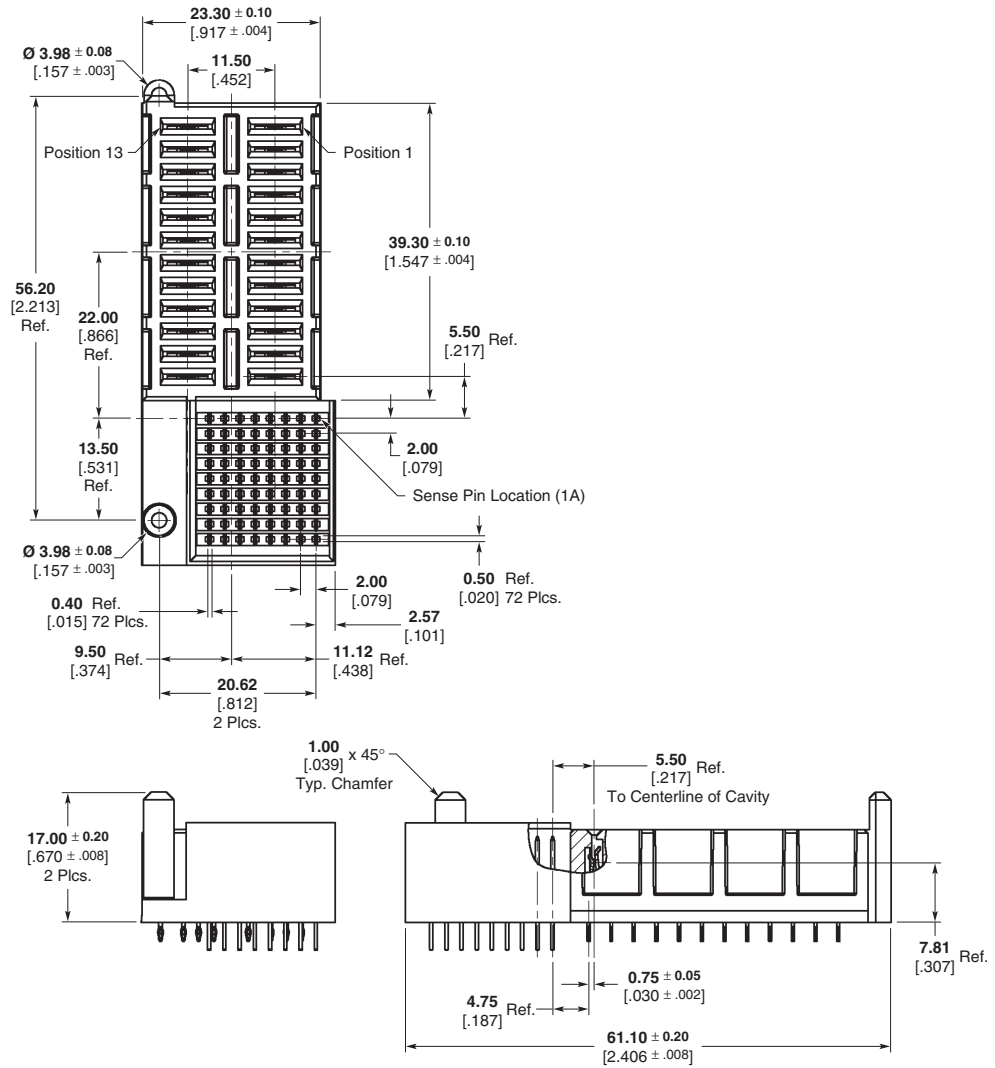
Product Defined in MicroTCA Specification (Continued)

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).

Product Defined in MicroTCA Specification (Continued)

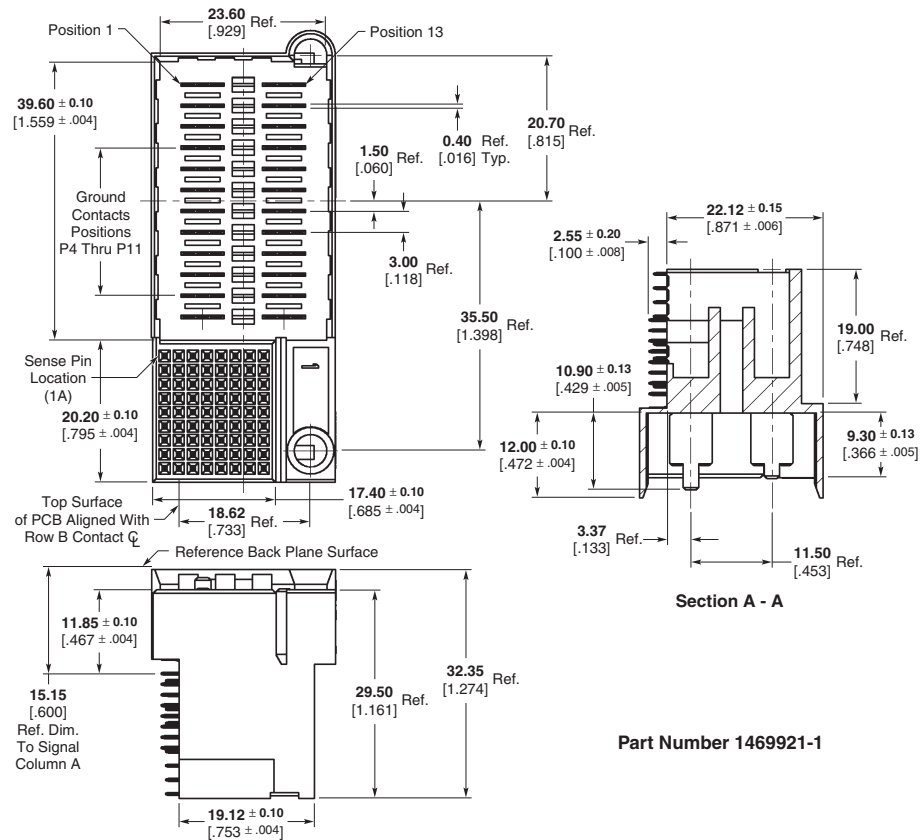
MINIPAK HD Power Connectors (Continued)

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

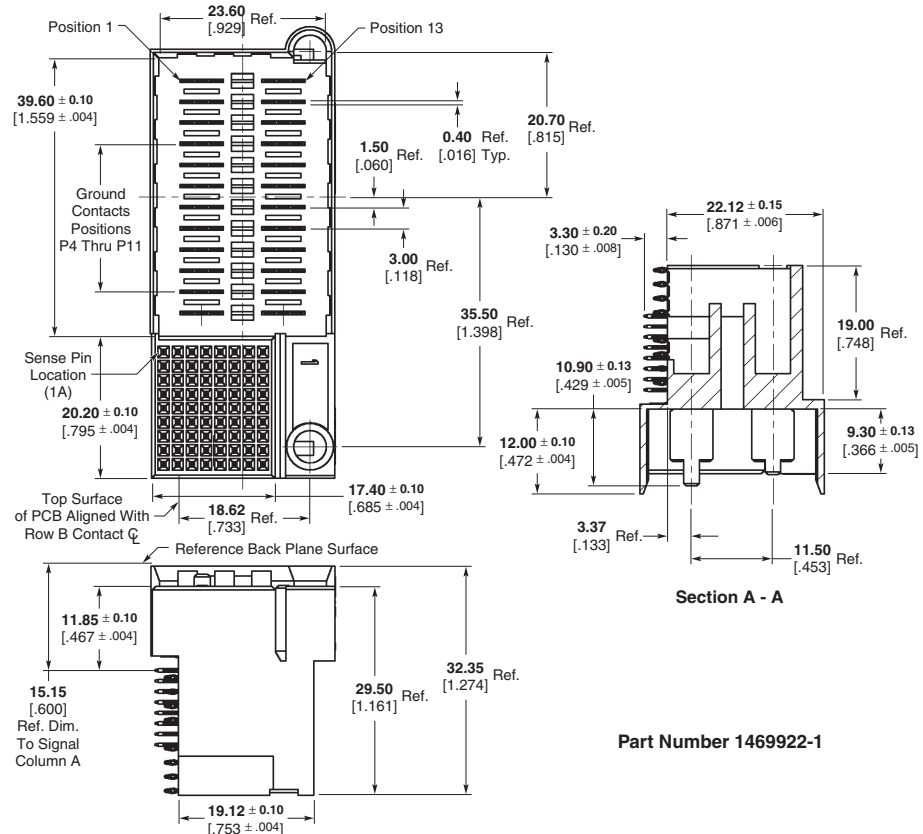
Part Number 1469922-1
(press-fit)

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.



Part Number 1469921-1



Part Number 1469922-1

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

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

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 Pins
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

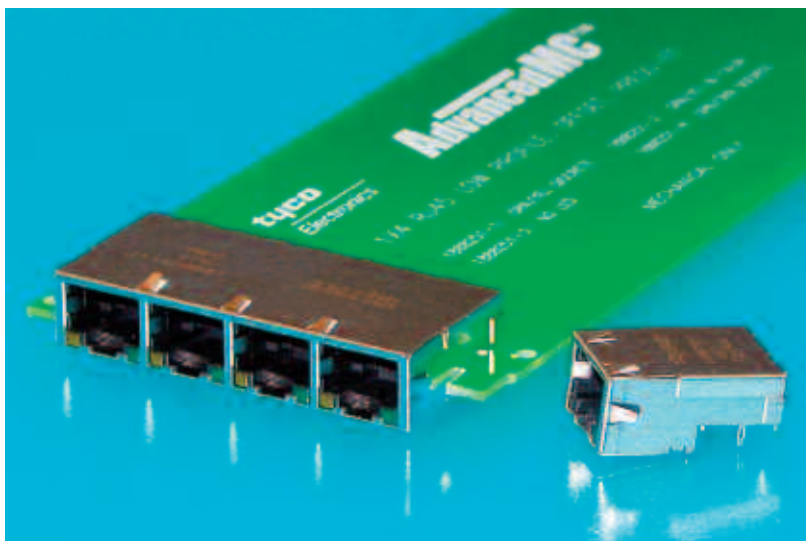
Note: Part Numbers are RoHS compliant.

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

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.

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

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.

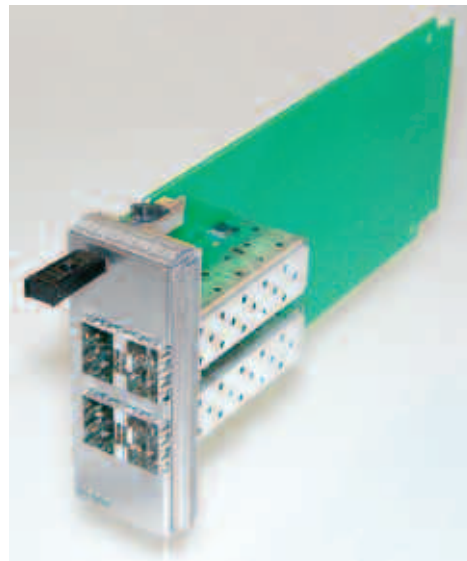
The one port cages are available in a one piece design (press-fit or solder) and a two piece design (press-fit, solder or SMT). Ganged versions (available in 1x6; 1x4; 1x2) are available with or without light pipes. The ganged product has the option of integrated host connector. Tyco Electronics is currently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

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.

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 management solutions available



MRJ21 PCB Receptacles (48-position)

Part Number	Panel Grounds	PCB Termination
1761482-1	No	Solder
1761482-2	Yes	Solder
1761482-4	No	Press-Fit

Receptacle Screwlocks

Part Number	Panel Thickness
1339381-1	< 1mm
1339381-2	> 1mm to < 2mm

Screwlocks sold separately

Note: Part Numbers are RoHS compliant.

AdvancedTCA — Thermal Products & Services

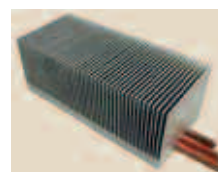
Thermal Interface Products are mandatory for reducing the waste heat and cooling the system in the most efficient way. Waste heat reduces the silicon chip reliability and performance. In addition to the products Tyco Electronics is offering such as Heat Sinks, Heat Pipes and CHIP COOLERS, in all shapes 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

FEATURES

- Tyco Electronics thermal solutions provide optimum cooling for active components like BGA (Ball Grid Array), MCM modules, optical modules and power devices
- Compatible to most AdvancedTCA connector form factors, low profile solutions
- Off the shelf as well as customized products
- Heat pipe technology in combination with passive heat sinks
- Advanced thermal conductive polymer for weight and cost reduction
- Full CFD (Computational Fluid Dynamics) simulation and analysis, optimum Thermal design numerical and analytical approaches

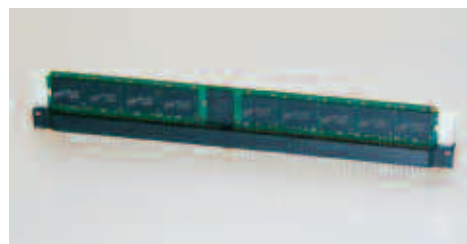


AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Low Profile DDR2 Connector for AdvancedTCA Standards

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

- 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
- Utilizes proven Tyco Electronics DDR2 contact design for reliable interface to the memory module
- Available in 3 solder tail lengths and contact interface plating options

[illegible]

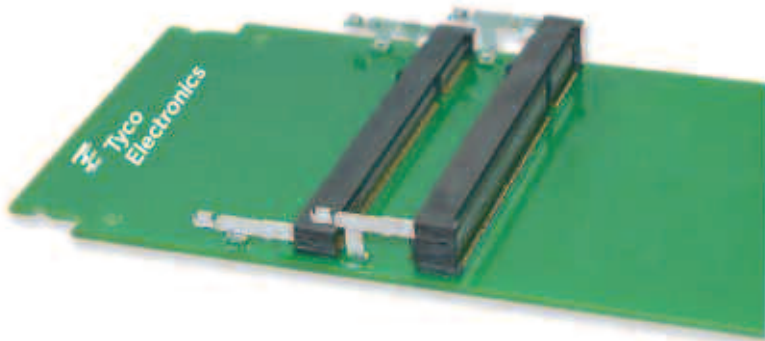
AdvancedMC, AdvancedTCA,
AdvancedTCA 300, MicroTCA and
PICMG are trademarks of PICMG-PCI
Industrial Computer Manufacturers
Group Incorporated.

Note: Part Numbers are RoHS compliant.

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.

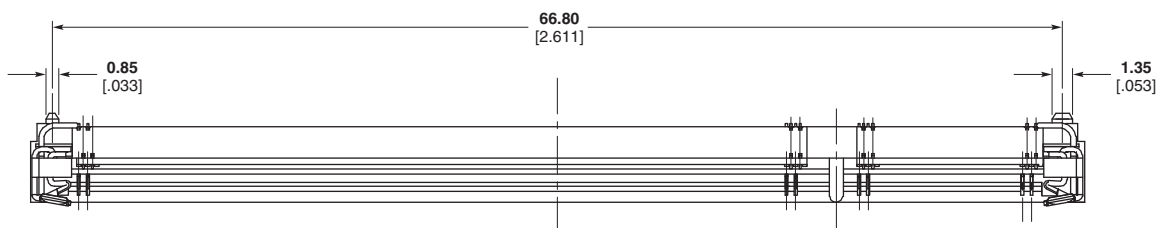


FEATURES

- 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



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

Note: Part Numbers are RoHS compliant.

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 Alloy

Technical Documents

EIA-700 AAAB Specification

Application Specification

114-25045

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 Positions	Height	Receptacle Part Number	
		30μ" Au Plating w/ pickup cap	50μ" Au Plating w/ pickup cap
64	5.37 .211	5120528-1	1-5120528-1
	7.37 .290	5120529-1	1-5120529-1
	8.37 .330	5120530-1	1-5120530-1
	10.37 .408	5120531-1	1-5120531-1
84	5.37 .211	5120528-2	1-5120528-2
	7.37 .290	5120529-2	1-5120529-2
	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 Positions	Height	Plug Part Number	
		30μ" Au Plating w/ pickup cap	50μ" Au Plating w/ pickup cap
64	6.35 .250	5120532-1	1-5120532-1
	7.35 .289	5120533-1	1-5120533-1
	8.35 .329	5120534-1	1-5120534-1
84	6.35 .250	5120532-2	1-5120532-2
	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, the 2.7 [.106] length assures optimum solder fillet regardless of connector manufacturer.

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

Note: Part Numbers are RoHS compliant.

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

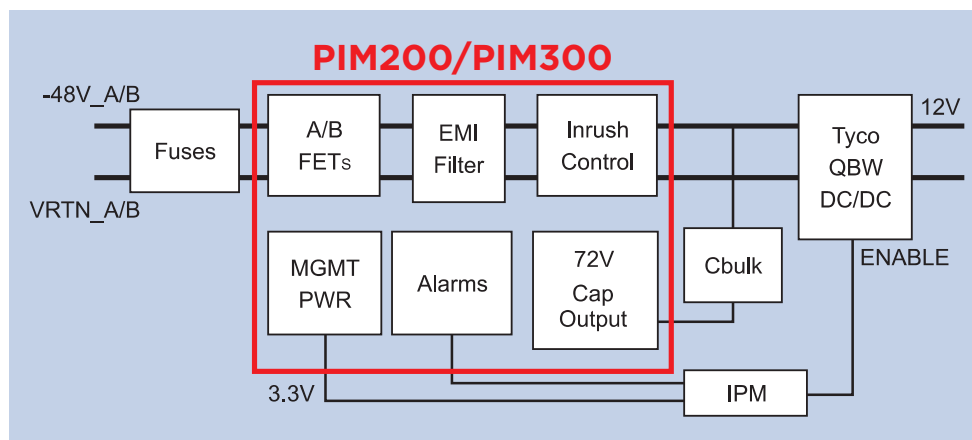
Flyer PIM05-001

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 compliant
- 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-voltage and over-voltage protections
- Over current and thermal protections
- UL/CSA/CE/VDE approved



	PIM	Discrete
PICMG 3.0 compliant	Yes	Board level
Fully tested & burned-in	Yes	Board level
Fully qualified	Yes	Board level
Parts count	1	> 100
Design-in time	Lower	Higher
Assembly cost	Lower	Higher
Yield/Repair cost	Lower	Higher
Time to market	Lower	Higher
Standard off-shelf part	Yes	No



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

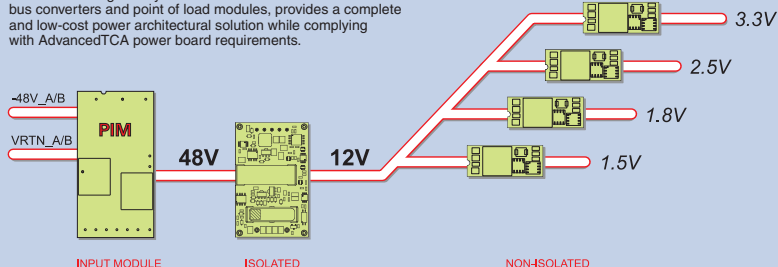
AdvancedMC, AdvancedTCA, AdvancedTCA 300, MicroTCA and PICMG are trademarks of PICMG-PCI Industrial Computer Manufacturers Group Incorporated.

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Power Distribution & Management Modules (Continued)

A Complete Power Architecture

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



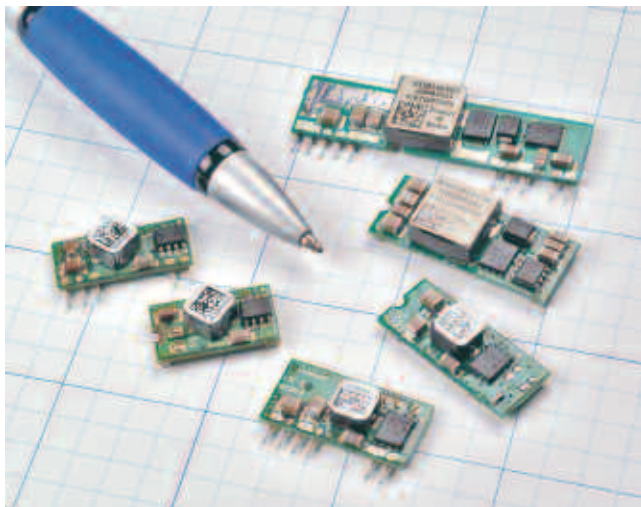
Isolated Bus Converters

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 Converters

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.

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	9
1469921	19	1934018	12	6469048	10
1469922	19	1934021	12	6469061	8
1469974	12	1934026	12	6469062	9
1469977	12	1934029	12	6469074	9
1489669	22	1934034	12	6469099	9
1489779	22	1934037	12	6469286	8
1658628	22	1934218	12	6469287	9
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		

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.multigirt.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.

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

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

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 Center:
(Technical Support)
Phone: +800-522-6752
Fax: +717-986-7575

For Latin/South American Countries not shown
Phone: +54-11-4733-2015
Fax: +54-11-4733-2083

Asia/Pacific

Australia – Sydney
Phone: +61-2-9554-2600
Fax: +61-2-9502-2556
Product Information Center:
(Technical Support)
Phone: +61-2-9840-8200
Fax: +61-2-9634-6188

India – Bangalore
Phone: +91-80-285-40800
Fax: +91-80-285-40820

Indonesia – Jakarta
Phone: +65-6482-0311
Fax: +65-6482-1012

Japan – Tokyo
Phone: +81-44-844-8111
Fax: +81-44-812-3207
Product Information Center:
(Technical Support)
Phone: +81-44-844-8013
Fax: +81-44-812-3200

Korea – Seoul
Phone: +82-2-3415-4500
Fax: +82-2-3486-3810

Malaysia – Kuala Lumpur
Phone: +60-3-78053055
Fax: +60-3-78053066

New Zealand – Auckland
Phone: +64-9-634-4580
Fax: +64-9-634-4586

Philippines – Makati City
Phone: +632-848-0171
Fax: +632-867-8661

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

Taiwan – Taipei
Phone: +886-2-8768-2788
Fax: +886-2-8768-2268

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

Thailand – Bangkok
Phone: +66-2-955-0500
Fax: +66-2-955-0505

Vietnam and 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

Germany – Bensheim
Phone: +49-6251-133-0
Fax: +49-6251-133-1600
Product Information Center:
(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: +31-73-6246-998

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 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 – Istanbul
Phone: +90-212-281-8181/2/3
Fax: +90-212-281-8184

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

United Kingdom – Swindon
Phone: +44-8706-080-208
Fax: +44-1793-572-516
Product Information Center:
(Technical Support)
Freephone GB: 0800-267-666
Phone: +44-8706-080-208
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
Harrisburg, PA

tycoelectronics.com

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



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru