

CONNECT AND PROTECT

AdvancedMC Carriers

01/2025





Systems - AdvancedMC carriers

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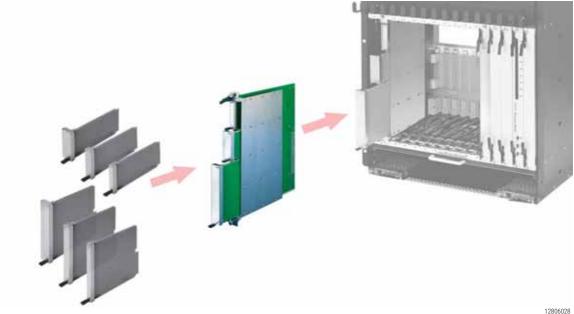
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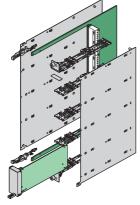


ADVANCEDMC CARRIERS

AdvancedMC carriers are plug-in units that are slotted into an AdvancedTCA system. They contain the carrier board that accepts AdvancedMC modules.

Electrical connection to the AdvancedTCA backplane is via connectors. With the fully-assembled AdvancedMC carrier in place, costeffective additional functions may be integrated into the system.

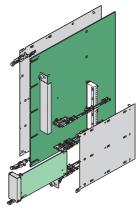
The standard, in accordance with PICMG specification AMC.0 R2.0, defines three different mechanical versions:



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Cutaway carrier

- · Carrier board is cut out in the area of the AdvancedMC modules
- · Max. placement: 8 single compact or 4 single full-size AdvancedMC modules
- · Combinations of full-size and compact modules are possible



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Hybrid carrier

- · Carrier board is a combination of conventional and cutaway carrier
- The maximum placement depends on the carrier board design
- Combinations of all AdvancedMC modules are possible

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Systems - AdvancedMC carriers

OVERVIEW

Overview 8.26

ADVANCEDMC CARRIERS FOR ADVANCED TCA SYSTEMS

- Cutaway and hybrid carrier mechanics for
 - compact AdvancedMC carrier boards
 - Mid-size AdvancedMC carrier boards
 - Full-size AdvancedMC carrier boards
- · Standard versions from stock
- Individual carrier/module combination of your choice





ADVANCEDMC CARRIERS

- 1 slot chassis, 8 U, 6 HP for AdvancedTCA systems
- · Inserter/extractor handle for microswitch activation
- Cutaway carrier for compact and full-size modules

modules Complete kits . . . 8.28 Kit without struts, guide rails 8.29 Guide rails/struts Microswitches ... 8.31 Differences between standard and MF handles for AMC 8.31 carriers

Cutaway carriers For compact and full-size

INDIVIDUAL SOLUTIONS ON REQUEST

- · AdvancedMC hybrid carrier
- · AdvancedMC hybrid mechanics for rugged AdvancedMC modules (MicroTCA.1)





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Hybrid carrier . . . 8.34

ServicePLUS configuration

SERVICEPLUS

e.g. individual configuration and fitting of hybrid

e.g. modifications (cut-outs, special colours)

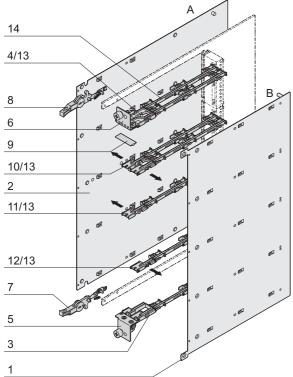
e.g. custom solutions (special sizes)

carriers)



CARRIER MECHANICS FOR COMPACT AND FULL-SIZE ADVANCEDMC MODULES





- Mechanics for cutaway carrier board (carrier with 3 different struts, guide rails, ESD clips)
- Stainless steel (EMC shielded)
- Width 1 slot (6 HP), height 8 U, corresponds to PICMG[®] AMC.0 R2.0
- Inserter/extractor handle, designed for microswitch activation hot-swap)

DELIVERY COMPRISES (Kit)

Item	Qty	Description
1	1	Cover plate B (right), stainless steel, brushed, 0.6 mm, inner surface electrically insulated, exterior with protective film
2	1	Cover plate A (left), stainless steel, brushed, 0.6 mm, inner surface electrically insulated, exterior with protective film
3	1	Lower splitting extrusion (strut), Zn die-cast, nickel-plated
4	1	Upper splitting extrusion (strut), Zn die-cast, nickel-plated
5	1	Lower front panel, stainless steel, brushed, 1 mm, alignment pin and retention screws pressed in
6	1	Upper front panel, stainless steel, brushed, 1 mm, alignment pin and retention screws pressed in, with holes for LEDs
7	1	Standard inserter/extractor handle, with microswitch operation, plastic lever, black
8	1	Standard inserter/extractor handle, plastic lever, black
9	1	EMC profile seal, core: foam, sleeve: textile cladding with CuNi coating
10	3	Support member between cover A and B
11	3	Support member for cover A (on the left)
12	3	Support member for cover B (on the right)
13	8	ESD clip
14	10	AdvancedMC guide rail, PBT, UL 94 V-0, red
15	1	Assembly kit

ORDER INFORMATION

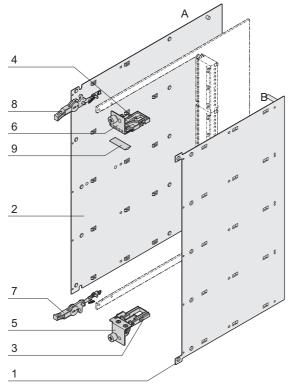
Description	Part no.
Carrier mechanics for AdvancedMC compact and full-size modules with struts, ESD clips and guide rails	10849-001
Accessories	
Microswitch, normally closed , for AdvancedMC carrier (compact	
and full-size modules)	20849-236
for soldering (SMD), PU 10 pieces	
Microswitch, normally open, for AdvancedMC carrier (compact	
and full-size modules)	20849-235
for soldering (SMD), PU 10 pieces	
Description inserter/extractor handle	Page 8.31
Microswitch description	Page 8.31
AdvancedMC module mechanics	Page 8.56

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CARRIER MECHANICS FOR COMPACT AND FULL-SIZE ADVANCEDMC MODULES





- Mechanics for cutaway carrier board (carrier **without** struts, guide rails, ESD clips, for individual placement)
- · Stainless steel (EMC shielded)
- Width 1 slot (6 HP), height 8 U, corresponds to PICMG®
- Inserter/extractor handle, designed for microswitch activation (hot-swap)

DELIVERY COMPRISES (Kit)

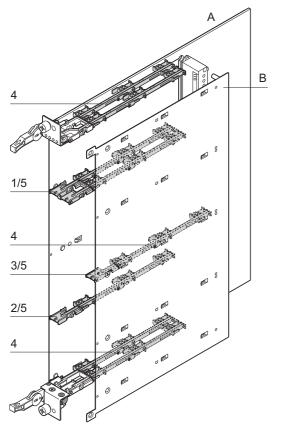
Item	Qty	Description
1	1	Cover plate B (right), stainless steel, brushed, 0.6 mm, inner surface electrically insulated, exterior with protective film
2	1	Cover plate A (left), stainless steel, brushed, 0.6 mm, inner surface electrically insulated, exterior with protective film
3	1	Lower splitting extrusion (strut), Zn die-cast, nickel-plated
4	1	Upper splitting extrusion (strut), Zn die-cast, nickel-plated
5	1	Lower front panel, stainless steel, brushed, 1 mm, alignment pin and retention screws pressed in
6	1	Upper front panel, stainless steel, brushed, 1 mm, alignment pin and retention screws pressed in, with holes for LEDs
7	1	Standard inserter/extractor handle, with microswitch operation, plastic lever, black
8	1	Standard inserter/extractor handle, plastic lever, black
9	1	EMC profile seal, core: foam, sleeve: textile cladding with CuNi coating
10	1	Assembly kit

ORDER INFORMATION

Description	Part no.
Carrier mechanics for AdvancedMC compact and full-size modules without struts, ESD clips and guide rails	10849-002
Accessories	
Microswitch, normally closed , for AdvancedMC carrier (compact and full-size modules) for soldering (SMD), PU 10 pieces	20849-236
Microswitch, normally open , for AdvancedMC carrier (compact and full-size modules) for soldering (SMD), PU 10 pieces	20849-235
Further struts, ESD clips and guide rails	Page 8.30
Description inserter/extractor handle	Page 8.31
Microswitch description	Page 8.31
AdvancedMC module mechanics	Page 8.56



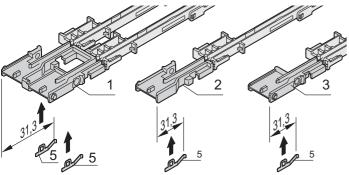
BOARD GUIDES/STRUTS FOR ADVANCEDMC COMPACT AND FULL-SIZE MODULES



- Struts and guide rails are always required to guide boards
- 3 different struts
 - The strut is assembled between the cover plates A and B
 - The strut is assembled on the left of cover plate A
 - The strut is assembled on the right of cover plate B
- The ESD clip pushes into the strut (one per board guide)
- The guide rails clip into the cover plate

ORDER INFORMATION

Item	Description	Qty/PU	Part no.
1	Strut between cover A (left) and B (right), Zn die-cast, nickel-plated	10	20849-009
2	Splitting extrusion (strut) for cover A (left), Zn die-cast, nickel-plated	10	20849-010
3	Splitting extrusion (strut) for cover B (on the right), Zn die-cast, nickel-plated	10	20849-011
4	AdvancedMC guide rail, PBT, UL 94 V-0, red	10	20849-008
5	ESD clip, stainless spring steel, for deflection of electrostatic charges	50	20849-021
Acces	sories		
Microswitch, normally closed , for AdvancedMC carrier (compact and full-size modules) for soldering (SMD), PU 10 pieces, page 8.31			20849-236
Microswitch, normally open , for AdvancedMC carrier (compact and full-size modules) for soldering (SMD), PU 10 pieces - page 8.31			20849-235

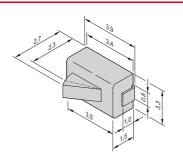


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MICROSWITCH FOR CARRIER (COMPACT AND FULL-SIZE ADVANCEDMC MODULES)



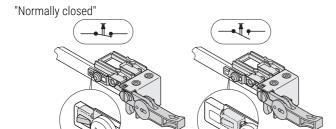
· Microswitch for soldering (SMD)

ORDER INFORMATION

Description	Qty/PU	Part no.
Microswitch, normally closed , for AdvancedMC carrier (compact and full-size modules)	10	20849-236
Microswitch, normally open , for AdvancedMC carrier (compact and full-size modules)	10	20849-235

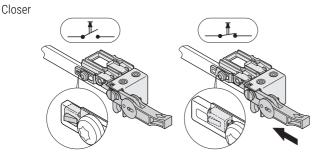
Technical data

Max. switch current	1 mA, 5 V _{DC}
Operating temperature	-15 °C +70 °C
Electrical lifespan	10 ⁵ switching cycles



Handle in inoperative position

Handle activated

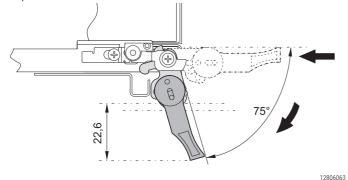


Handle in inoperative position

Handle activated

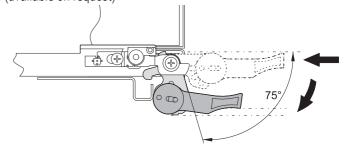
DIFFERENCES BETWEEN STANDARD AND MF HANDLE FOR ADVANCEDMC CARRIER (COMPACT AND FULL-SIZE MODULES)

Standard front handle - is included in delivery of carriers for compact and full-size modules



- · Extractor handle 75° opening angle
- Insertion/extraction in one step
- Swing range: 23 mm below and above the pitch line
- · Included in delivery of carrier

MF handle - can be exchanged by standard handle if needed (available on request)



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- Extractor handle 75° opening angle
- Insertion/extraction in three steps (2 operations)
- Small swing range (0 mm) below and above the pitch line. The lower respectively upper limit of the carrier is not exceeded during extraction.



Systems – AdvancedMC carrier Ser-

SERVICEPLUS: SOLUTION



ADVANCEDMC CARRIER MECHANICS

- The carrier board is a combination of conventional and cutaway carriers
- Max. placement depends on the design of the carrier board
- Custom versions on request
- Single/double combinations
- Handles
 - AdvancedTCA IEA
 - AdvancedTCA Southco

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Systems – ServicePLUS

APPLICATION EXAMPLES



 Hybrid system, modification of a MicroTCA single-module board cage into a 3 U chassis to DIN EN 60297



 MicroTCA system, 1 U for 6 single mid-size AMC modules; power supply, increased air inlet and exhaust area with inwardly curved side panels



MicroTCA chassis with hot-swap fan unit and power supply



• CompactPCI chassis with hot-swap fan unit and custom finishing



• CompactPCI chassis with 48 V_{DC} power supply



• 2 slot, 2 U AdvancedTCA chassis with custom colour

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North America

Warwick, RI, USA Tel +1.800.525.4682 San Diego, CA, USA Tel +1.800.854.7086

Europe, Middle East & India

Straubenhardt, Germany

Tel +49 7082 794 0

Betschdorf, France

Tel +33 3 88 90 64 90

Warsaw, Poland

Tel +48 22 209 98 35

Hemel Hempstead,

Great Britain

Tel +44 1442 24 04 71

Lainate, Italy

Tel +39 02 932 714 1

Dubai, United Arab Emirates

Tel +971 4 37 81 700

Bangalore, India

Tel +91 80 67152000

Istanbul, Turkey

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