

HARTING AdvancedMC™ Connectors for μTCA™ and ATCA®



ADVANCEDMC™ CONNECTORS FOR MICROTCA™ (μTCA™) AND ADVANCEDTCA® (ATCA®)

Specifications:

- Contact spacing: 0.75 mm
- Clearance and creepage distance between contacts: 0.1 mm min.
- Temperature range: -55 °C to +105 °C
- Durability: 200 mating cycles
- Termination technique: Press-in termination
- Mating force: 100 N max.
- Withdrawal force: 65 N max.
- Molded parts material: Palladium nickel plated, UL 94-V0
- Contact material: Copper Alloy
- Contact surface material: Selectively gold plated

AdvancedMC™ Plug Connector for MicroTCA™ and AdvancedTCA®

The HARTING AdvancedMC™ Plug Connector replaces the gold pads of the AMC Module card edge to create a two piece connector system. This provides many important advantages including significantly reduced module insertion forces, tighter controlled tolerances and a higher number of mating cycles. The AdvancedMC™ Plug Connector fits within the module envelope defined by the PICMG AMC.0 specification and is applicable to both AdvancedTCA® and MicroTCA™ applications.

Features:

- Four step chamfered mating reduces insertion force by 50%
- Enables the use of PCBs outside of the 1.6mm±10% thickness range
- Reduces replacement cost of damaged boards (i.e. replace connector not module)
- Designed to support high speed signaling up to 6.25 Gbit/s transmission speeds, 12.5 Gbit/s transmission speeds in the future

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Pin Length (mm)	Description	Price Each		
						1	10	25
617-16-21-170-1301	16-21-170-1301-000	A	170	1.76	Plug connector	53.85	50.87	47.86

AdvancedMC™ Connector for MicroTCA™ (μTCA™)

MicroTCA™ is an open industry standard developed by the PCI Industrial Computer Manufacturers Group (PICMG). In a MicroTCA™ system, AdvancedMC™ modules are plugged directly into a backplane and not into a carrier board. As a result MicroTCA™ system shelves are smaller and cheaper than AdvancedTCA® systems, yet powerful enough to address the needs of telecom, enterprise and medical applications.

Features:

- Differential pins are isolated by the distance between signal and ground pins, resulting in low cross talk and excellent high speed performance
- Design according to: PICMG MicroTCA.0
- HARTING con:card+® technology for significant increase in connector reliability

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Pin Length (mm)	Description	Price Each		
						1	10	25
617-16-11-170-5202	16 11 170 5202 000	B	170	2.1	Card edge, straight	31.08	27.97	26.42

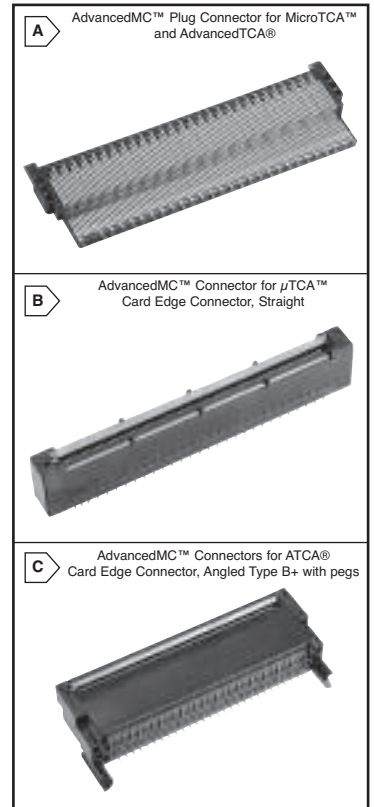
AdvancedMC™ Connector for AdvancedTCA™ (ATCA™)

Advanced Telecommunications Computing Architecture (AdvancedTCA®) is an open industry standard developed by the PCI Industrial Computer Manufacturers Group (PICMG). Defined by PICMG 3.0, the AdvancedTCA® series of specifications targets the requirements of the next generation of carrier grade telecommunications equipment. To extend the functionality and modularity of AdvancedTCA® carrier boards, PICMG developed the Advanced Mezzanine Card (AdvancedMC™) standard AMC.0.

Features:

- Superior transmission performance at high data transmission speeds designed to minimize interferences from cross talk and reflections
- Design according to: PICMG AMC.0

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Pin Length (mm)	Description	Price Each		
						1	10	25
617-16-04-170-5106	16 04 170 5106 000	C	170	2.0	Card edge, angled type B+ with peg	48.20	43.38	40.97



HAR-MIK® SCSI (SMALL COMPUTER SYSTEM INTERFACE) I/O CONNECTORS

Features:

- Meets SCSI-3 Specifications
- Pin and Socket Pitch: 1.27 mm
- Current rating: 1 A
- Contact resistance: ≤ 30mΩ
- Temperature Range: -55°C - +105°C
- Contacts: Copper Alloy
- Moldings: Thermoplastic resin, glass fiber filled - UL94V-0

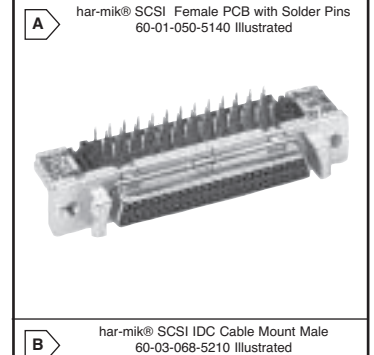


SCSI Female PCB Connectors

For quantities of 100 or more, call for quote.

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Term.	Pin Length (mm)	Description	Price Each			
							1	10	25	50
Straight										
617-60-01-050-5102	60 01 050 5102	A	50	Solder Pins	3.4	with latch system	5.76	5.19	4.89	4.61
617-60-01-068-5102	60 01 068 5102	A	68	Solder Pins	3.4	with latch system	8.50	7.66	7.22	6.80
Right Angle										
617-60-01-050-5140	60 01 050 5140	A	50	Solder Pins	3.4	with latch system	6.02	5.42	5.12	4.81
617-60-01-068-5140	60 01 068 5140	A	68	Solder Pins	3.4	with latch system	9.14	7.92	7.20	6.90

†† Panel fixing: M2.5, Board fixing: board lock



SCSI IDC Cable Mount Connectors

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Description	Price Each			
					1	10	25	50
Male								
617-60-03-050-5200	60 03 050 5200	B	50	for discrete wire 28/30 AWG	5.34	4.81	4.54	4.27
617-60-03-068-5200	60 03 068 5200	B	68	for discrete wire 28/30 AWG	7.40	6.66	6.29	5.92
617-60-03-068-5210	60 03 068 5210	B	68	for discrete wire 28/30 AWG	7.40	6.66	6.29	5.92
617-60-06-050-5440	60 06 050 5440	B	50	for flat cable, .635 mm, 30 AWG	9.85	9.34	9.04	8.61
617-60-06-068-5440	60 06 068 5440	B	68	for flat cable, .635 mm, 30 AWG	10.18	9.17	8.66	8.16
Female								
617-60-04-050-5343	60 04 050 5343	B	50	for flat cable w/ latch system, .635 mm	15.52	13.97	13.20	12.42
617-60-04-068-5343	60 04 068 5343	B	68	for flat cable w/ latch system, .635 mm	20.90	18.81	17.78	16.72
617-60-03-068-5344	60 04 068 5344	B	68	for flat cable w/ screw lock system, .635 mm	19.82	17.84	16.85	15.86

* with 0.50-0.65mm diameter insulation

† with 0.65-0.80mm diameter insulation



SCSI Female SMC Right Angle Connectors

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Description	Price Each			
					1	10	25	50
617-60110145740710	60110145740710	C	14	Bellow contacts with fixed latch	6.67	6.15	5.52	5.33

Hoods

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	HARTING Part No.	Fig.	No. of Contacts	Description	Price Each			
					1	10	25	50
617-60-03-050-0255	60 03 050 0255	-	50	Metal hood with latch	6.38	6.05	5.85	5.57
617-60-03-068-0255	60 03 068 0255	-	68	Metal hood with latch	7.62	6.86	6.49	6.10

