MicroTCA.4 RTM for AMC520

KEY FEATURES

- MicroTCA.4 RTM for the AMC520
- Two analog outputs from AMC520's DACs via SSMC connectors
- Ten analog inputs (AC or DC coupled) interfacing directly with AMC520's ADC ICs via SSMC connectors
- Twelve LVDS signals and three differential reference clock routing to AMC520's FPGA
- LVDS and reference clocks accessible via dual high density DensiShield connectors
- Double module, mid-size (full-size optional)
- RoHS compliant

Benefits of Choosing VadaTech

- Expertise in RTM and MTCA.4 board design
- Full ecosystem of MicroTCA.4 AMCs, PMs, MCH, RTMs, chassis, and application-ready systems
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The MRT520 is a Rear Transition Module (RTM) for VadaTech's AMC520 10-channel ADC. The board uses SSMC connectors for the analog input and output interface. Dual high-density DensiShield connectors are used for the LVDS and reference clocks.

Each of the 10 channels of the MRT520 are routed to the front module (AMC520) via the DC or AC inputs of the AMC520 (the module has AC or DC input options to each of the A/D). The AC or DC input are selected via the zero ohms resistors that customers can change in the field.

The Analog Input Signal is field selectable for direct or 1, 2,+/- 5, +/-10 VDC. The Analog Output Signal is 10 VDC.
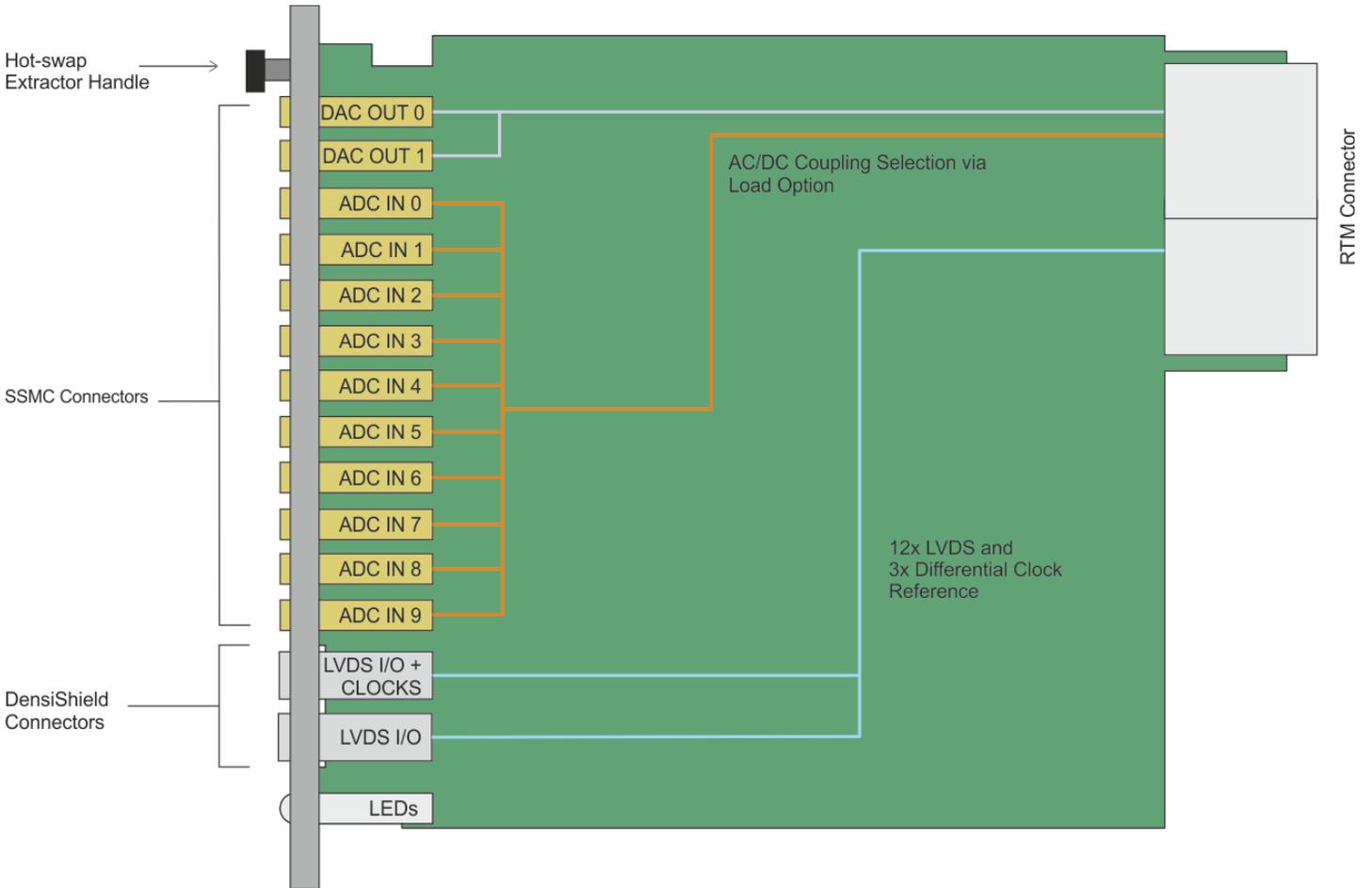
VadaTech offers a wide range of MicroTCA.4 products, including full systems. Contact your local salesperson or representative for details.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

MicroTCA.4 RTM for AMC520 – MRT520

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and μTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

BLOCK DIAGRAM

PANEL VIEW

SPECIFICATIONS

Architecture		
Physical	Dimensions	Double module, mid-size with full-size option
		Width 5.85" (148.5 mm)
		Depth 7.18" (182.6 mm)
Type	AMC RTM	Routes 10 analog inputs and 2 analog outputs
Standards		
µTCA	Type	µTCA.4 RTM
AMC	Type	AMC.0, AMC.1, AMC.2 and AMC.4
Configuration		
Power	AMC520	Estimated 1 W, application specific
Environmental	Temperature	Operating Temperature: -5° to 55° C (air flow requirements >400 LFM))
		Storage Temperature: –40° to +85° C
	Vibration	1G, 5 to 500 Hz on each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	Interface Connectors	12 SSMC connectors
		2 High density DensiShield connectors
	LEDs	IPMI Management Control
	Mechanical	Hot Swap Ejector Handle
Other		
MTFB	MIL Hand book 217-F @ TBD Hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	
Trademarks and Disclaimer	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

MicroTCA.4 RTM for AMC520 – MRT520

ORDERING OPTIONS

MRT520 – A0C – D00 – 00J

A = Analog Input Coupling
1 = AC coupling
2 = DC coupling

D= Analog Input Signal
0 = Direct
1 = Reserved

C = Front Panel
1 = Reserved
2 = Mid-Size
3 = Full-Size

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

RELATED PRODUCTS

**AMC520 250 MSPS
DAC Converter**

**VT811 MTCA.4
Chassis**

**UTC018 1000W
Power Module**

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