

MRT566A

MTCA.4 RTM for AMC566



MRT566A

Key Features

- MicroTCA.4 RTM for the AMC566
- DESY D1.4 Specification
- 4x TI ADS42JB69
- Total of 8 ADC 16-bit @ 250MSPS
- Clock input for synchronization

Benefits

- 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



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MRT566A

The MRT566A is a Rear Transition Module (RTM) for VadaTech's AMC566 with 4x TI ADC part number ADS42JB69 and follows DESY 1.4 Specification Zone3 pinout definition.

The 8 ADC are 16-bit with 250 MSPS. The ADC input are via SSMC connectors. The module has clock input to allow synchronization to an external source.

VadaTech offers a wide range of MicroTCA.4 products, including full systems. Contact your local salesperson or representative for details.



Figure 1: MRT566A



Figure 2: MRT566A Top View



Figure 3: MRT566A Front Panel View (Flipped)

Block Diagram

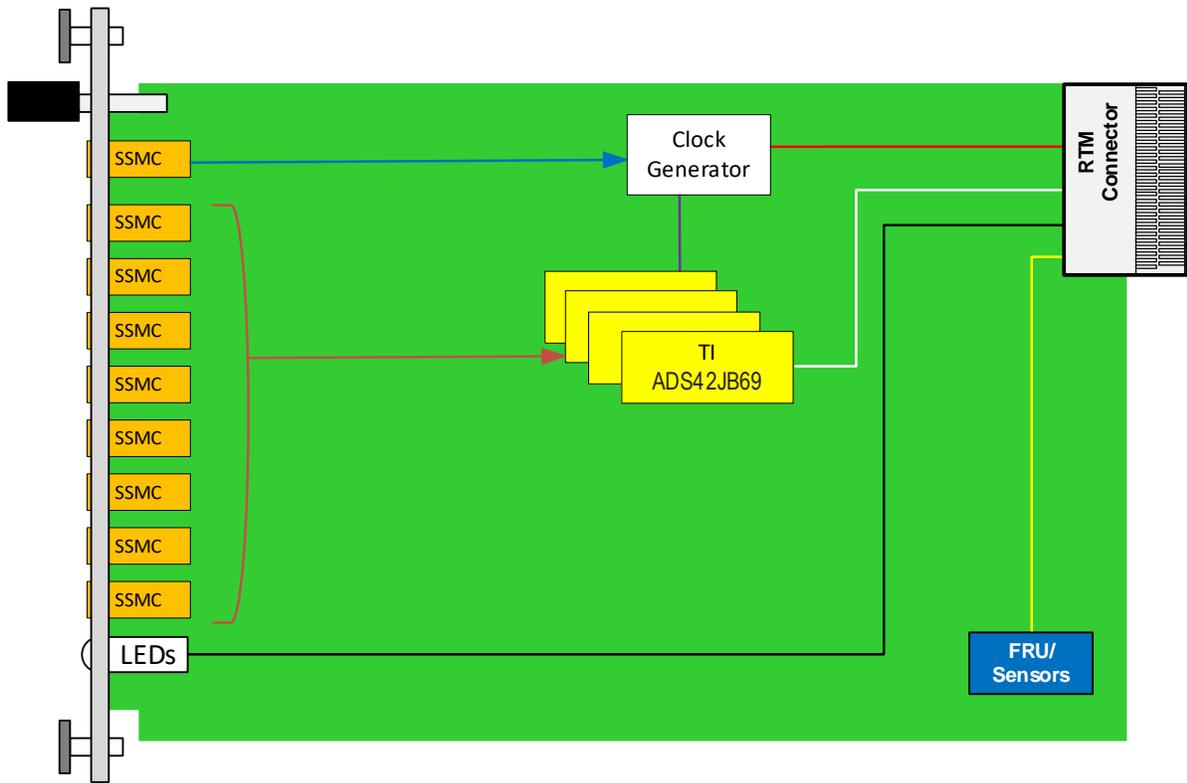


Figure 4: MRT566A Functional Block Diagram

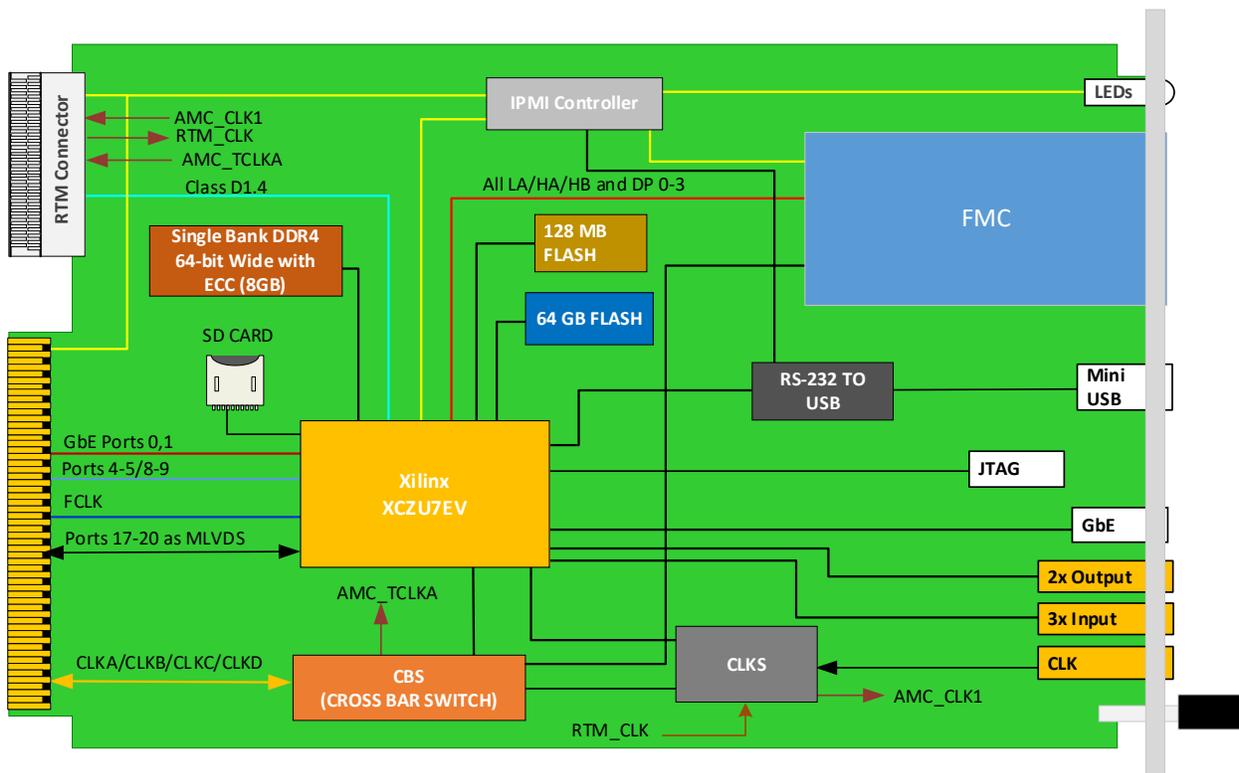


Figure 5: AMC566 Block Diagram (sold separately)

Specifications

Architecture	
Physical	Dimensions Double module, full-size Width: 5.85" (148.5 mm) Depth 7.18" (182.6 mm) Weight: TBD
Type	Analog I/O MicroRTM Single Mezzanine Card Slot
Standards	
MTCA	Type MTCA.4 RTM
Module Management	IPMI IPMI v2.0
Configuration	
Power	MRT566A ~10W
Environmental	Temperature See Ordering Options Storage Temperature: -40° to +85°C Vibration Operating 9.8 m/s ² (1G), 5 to 500 Hz on each axis Shock 30Gs each axis Relative Humidity 5 to 95% non-condensing
Rear Panel	Interface Connectors RF via SSMC Clocks and 8x ADC as input LEDs User, IPMI management control Mechanical Hot-swap ejector handle
Software Support	Operating System N/A
Other	
MTBF	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 ISO9001:2015 and AS9100D standards
Warranty	Two (2) years, see VadaTech Terms and Conditions

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

MRT566A – A0C-000-00J

A = Front End Analog Bandwidth		
0 = <250MHz		
1 = >250MHz		
C = Front Panel Size		J = Temperature Range and Coating
1 = Reserved		0 = Commercial (–5° to +55°C), No coating
2 = Reserved		1 = Commercial (–5° to +55°C), Humiseal 1A33 Polyurethane
3 = Reserved		2 = Commercial (–5° to +55°C), Humiseal 1B31 Acrylic
4 = Reserved		3 = Industrial (–20° to +70°C), No coating
5 = Mid-size, MTCA.4 (captive screws)		4 = Industrial (–20° to +70°C), Humiseal 1A33 Polyurethane
6 = Full-size, MTCA.4 (captive screws)		5 = Industrial (–20° to +70°C), Humiseal 1B31 Acrylic
7 = Extended-size, MTCA.4 (captive screws)		

Related Products

AMC523



- Dual DAC 16-bit @ 250 MSPS utilizing MAX5878 device (user programmable for lower sampling rate)
- Xilinx Kintex-7 FPGA XC7K410T in FFG900 package
- Supported by DAQ Series™ data acquisition software

VT811



- MTCA System Platform 19" x 8U x 14.9" deep (with handles 16.23" deep)
- Full redundancy with dual MicroTCA Carrier Hub (MCH), dual Cooling Units and quad Power Modules
- Up to twelve AMCs: 12 front mid-size double module slots and RTM slots

UTC018



- Double-module, 12 HP height module per AMC.0
- Universal AC input (85 to 265V), 1000W
- Provides power up to 12 AMCs, 2 MCHs and Cooling Units

Contact

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