

MZ523A – Mezzanine for MRT523, 12 Channel Passive Pass-through

Mezzanine for MRT523



KEY FEATURES

- Mezzanine module for MRT523
- Routes 12 analog inputs, 2 digital outputs, input clock, trigger in/out, three pairs of user defined digital I/O from rear panel to mezzanine connectors
- Direct connection on all analog channels, giving full performance of the ADC
- RoHS compliant

Benefits of Choosing VadaTech

- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

The MZ523A is a mezzanine module for VadaTech's MRT523. The AMC/MRT523 combination provides 12-channel ADC 16-bit @ 125 MSPS, and this mezzanine routes analog inputs to the ADC.

The MZ523A is intended primarily for system development/evaluation purposes. It provides no buffering or limiting of the input signals, so the user must ensure inputs are within +/-1 V to avoid damage to the ADCs.

The board implements a differential double balun on each mezzanine single ended analog input, as recommended by the AD9653 datasheet for optimum performance. Inputs have 50Ω termination to ground, and are then coupled to ADC inputs via a 0.4 to 800 MHz balun.

The MZ523A complies with the MRT523 Mezzanine Interface Specification, which can be made available to research partners to allow them to develop their own application-specific mezzanine modules.

MZ523A – Mezzanine for MRT523, 12 Channel Passive Pass-through

BLOCK DIAGRAM

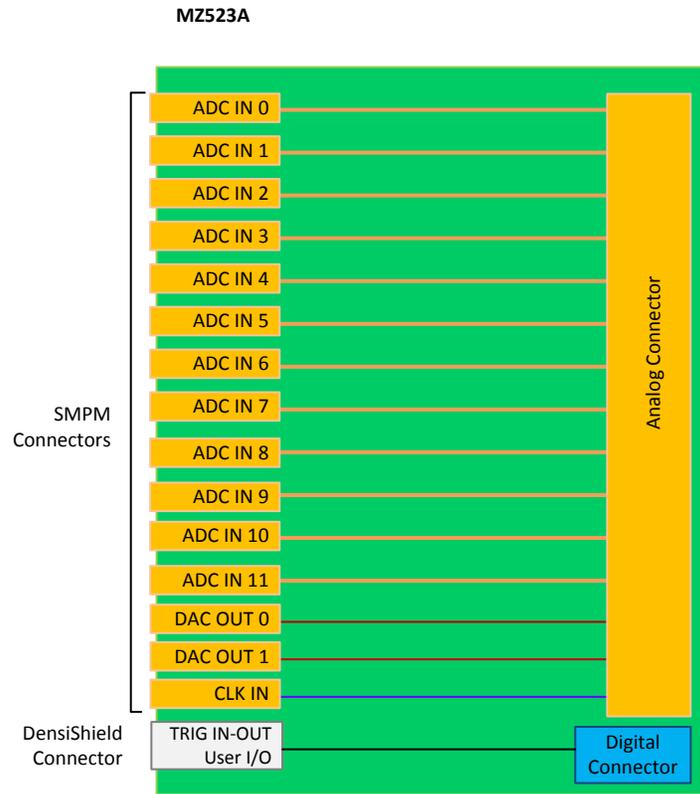


Figure 1: MZ523A Block Diagram

MZ523A – Mezzanine for MRT523, 12 Channel Passive Pass-through

SPECIFICATIONS

Architecture

Physical	Dimensions	Per MRT523 Mezzanine Interface Specification (available on request)
Type	RTM Mezzanine	Routes 12 analog inputs, 2 analog outputs, 1 clock input, 1 differential trigger IO and 3 user defined digital IO pairs

Configuration

Power	MZ523A	Under 1 W
--------------	--------	-----------

Environmental	Temperature	Operating Temperature: -5° to 45°C (55°C for limited time, performance restrictions may apply)
----------------------	-------------	--

Storage Temperature: -40° to +85° C

Relative Humidity 5 to 95 percent, non-condensing

Rear Panel	Interface Connectors	15 SMPM connectors
-------------------	----------------------	--------------------

1 high density DensiShield connectors

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 ISO9001:2000 and AS9100B:2004 standards
------------------	---

Warranty	Two (2) years
-----------------	---------------

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and μ TCA 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.

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

MZ523A – Mezzanine for MRT523, 12 Channel Passive Pass-through

ORDERING OPTIONS

MZ523A – 00C – 000 – 00J

C = Front Panel *

- 1 = Reserved
- 2 = Reserved
- 3 = Reserved
- 4 = Reserved
- 5 = Mid-size
- 6 = Full-size

J = Temperature Range and Coating

- 0 = Commercial (–5° to +55° C), No coating
- 1 = Commercial (–5° to +55° C), Humiseal 1A33 Polyurethane
- 2 = Commercial (–5° to +55° C), Humiseal 1B31 Acrylic
- 3 = Industrial (–20° to +70° C), No coating
- 4 = Industrial (–20° to +70° C), Humiseal 1A33 Polyurethane
- 5 = Industrial (–20° to +70° C), Humiseal 1B31 Acrylic

* Front Panel size must match the host MRT523

RELATED PRODUCTS



AMC523
DAC Converter



VT811 MTCA.4
Chassis



MRT523 12-ch A/D Converter
RTM for AMC523

CONTACT US

VadaTech Corporate Office

198 N. Gibson Rd.
Henderson, NV 89014
Email: info@vadatech.com
Telephone: +1 702 896-3337
Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhua Street, Neihu District
Taipei 114, Taiwan
Email: info@vadatech.com
Telephone: +886-2-2627-7655
Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road,
Southampton, SO40 9LR
Email: info@vadatech.com
Telephone: +44 2380 016403