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THE POWER OF VISION

µTCA JTAG Switch Module (JSM) – UTC008

3rd Generation 10G/40G MCH

KEY FEATURES

- JTAG Switch Module (JSM) per µTCA specification
- Provides transparent communications between the arbitrated master and a selected secondary port
- Mates directly to the chassis that have a JSM connector (standard compact-size AMC panel)
- Supports up to 12 AMCs, 2 MCHs, 4 Power Modules, 2 Cooling Units and front/rear (21) ports
- Operates via front/rear, or the 2 MCHs
- Auto-detection of port presence
- Three arbitrated master ports
- Configuration mode uses IEEE 1149.1 TAP controller
- Operation up to 50 MHz
- LEDs for activity, master grant and secondary port selection

Benefits of Choosing VadaTech

- Allows interface to all slots in one module, only need to plug the JTAG dongle to one slot
- Ideal for prototyping/debugging and software uploads within MicroTCA system
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level
- expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The UTC008 is a JTAG Switch Module for interface to all slots via one module for prototyping/debugging and software updates. The power comes from the management (+3.3 V). The UTC008 consumes less than 55 mW. The front connector is standard 0.1 header which mates to most JTAG modules. There are three arbitrated master ports (2 MCH and the front/rear connector). The secondary ports are auto detected if they are present. The modules provides transparent communication between the master and a selected secondary port. All configuration modes uses IEEE1149.1 TAP controller. The JTAG can operate with up to 50 MHz clock.

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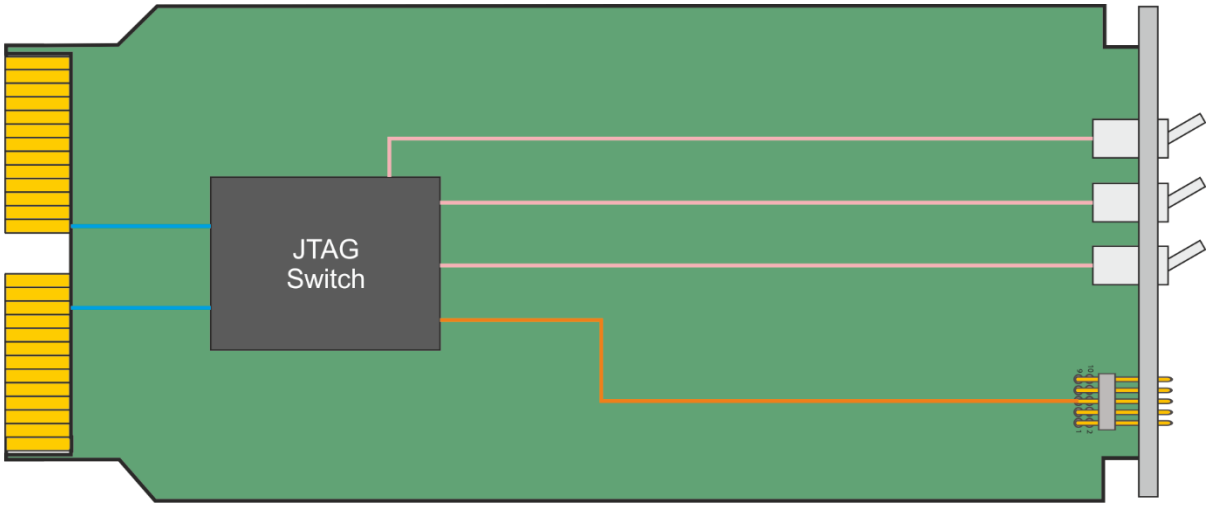
BLOCK DIAGRAM



SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, compact-size (mid-size or full-size available)
		Width: 2.89” (73.5 mm)
		Depth: 7.11” (180.6 mm)
Type	µTCA JSM	21 ports
Standards		
µTCA	Type	µTCA.0 Revision 1
Configuration		
Power	UTC004	55 mW
Environmental	Temperature	Operating Temperature: 0° to 65° C (air flow requirements >400 LFM))
		Storage Temperature: –40° to +90° 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	10 pin right-angle 0.1 spacing
	LEDs	Activity, ,master port and secondary port selection
	Mechanical	Captive screw tie down
	Operating Systems	Linux, Windows, Solaris and VxWorks
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	
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ORDERING OPTIONS

UTC008 – 00C – 000 – 00J

C = Front Panel
0 = Compact-size
1 = Mid-size
2 = Full-size

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

RELATED PRODUCTS

UTC002 MCH

VT861 5U Chassis Platform

UTC020 1000W Power Module

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