



UTC012KEY FEATURES

- Single-width, full-height module per AMC.0
- Dual 10 to 36 VDC input for 241W option and 18 to 36 VDC input for 460W option
- Support for power module redundancy
- Dual IPMI bus
- 32-bit RISC processor
- Two banks of 256K flash for redundancy
- Field upgradable
- IPMI 2.0 compliant
- HPM.1 compliant
- Without the presence of an MCH the modules can be turned on
- Menu driven software for ease of configuration
- Current measure for each module
- External as well as internal WDT

The VadaTech UTC012 is a 241/460W power module for use in a μ TCA chassis. The power module runs at 84% efficiency when running at maximum load. This results in 200/400W (available to the system). It is fully compliant with the MicroTCA.0 revision 1.0 specification; including dual-redundant I²C buses (IPMB-0).

The UTC012 is fully redundant when used in conjunction with a second instance of the module. It provides power to the twelve slots, two MCHs (MicroTCA Carrier Hubs) as well as the CUs.

Multiple temperature sensors are included on-board to monitor for over-temp conditions within the module. The current is continuously measured for each of the modules and reported to MCH for any fault.

The firmware is upgradable via HPM.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

μ TCA™

Power Module for μ TCA Chassis

SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 2.89in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Power Module	Intelligent Power controller for μ TCA style chassis
Standards		
Module Management	IPMI	IPMI Version 2.0
	ATCA	PICMG 3.0 Revision 2.0 (AdvancedTCA)
	AMC	PICMG AMC.0 Revision 1.0 (AdvancedMC)
	μ TCA	PICMG MicroTCA.0 Revision 1.0
	HPM	HPM.1 Revision 1.0
Configuration		
Power	UTC012	241/460W Power Module
Environmental	Temperature	Operating Temperature: -20° to 70° C
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Features	External interface	RS-232 front panel access
	Input Power	10 to 36VDC for 241W option and 18 to 36 VDC for 460W option
	Temp Sensor	Multiple temp sensors on-board
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	
Compliance	RoHS and NEBS	
Warranty	Two (2) years	
Trademarks	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™, AdvancedTCA™ and μ TCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

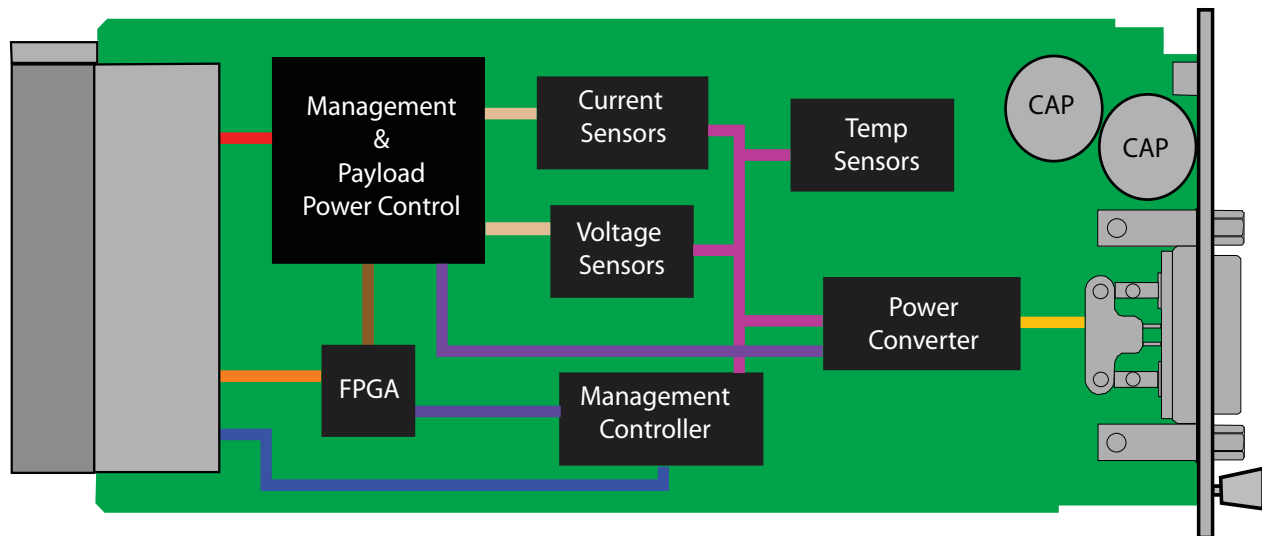


FIGURE 1. UTC012 Functional Block Diagram

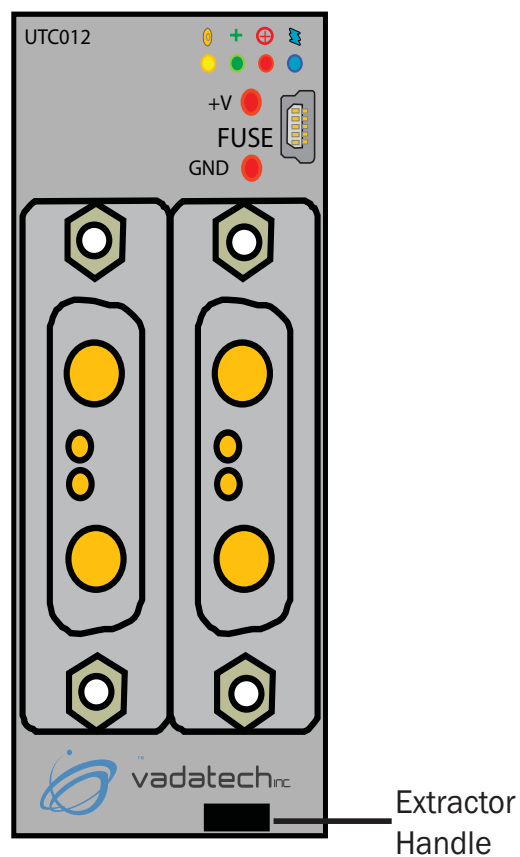


FIGURE 2. UTC012 Front Panel Diagram

Key Software / Hardware Features:

- ❖ Core IPMI Functionality
 - ◆ IPMI 2.0 compliant
 - ◆ HPM.1 compliant
 - ◆ SDR Repository with Update Mode
 - ◆ FRU Inventory
 - ◆ Initialization Agent
 - ◆ Temperature and Current sensors
- ❖ Optional IPMI Commands Supported
 - ◆ Warm/Cold Reset
 - ◆ Get Device GUID
 - ◆ Get/Set Sensor Hysteresis
 - ◆ Get/Set Sensor Threshold
 - ◆ Get/Set Sensor Event Enable
 - ◆ Re-arm Sensor Events
- ❖ Core ATCA Functionality
 - ◆ Redundant IPMB-0
 - ◆ Hot-swap handle
 - ◆ FRU LED control
- ❖ μ TCA Functionality
 - ◆ Power Channel Control
 - ◆ Get Power Channel Status
 - ◆ PM Reset
 - ◆ Get PM Status
 - ◆ PM Heartbeat

ORDERING OPTIONS

A = Input Power

- 1 = 241W (input voltage 10 to 36V)
- 2 = 460W (input voltage 18 to 36V)

UTC012 - A00 - 000 - 0HJ

H = Operating Temp

- 1 = Commercial (0° to +65°)
- 2 = Industrial (-20° to +70°)

J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

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