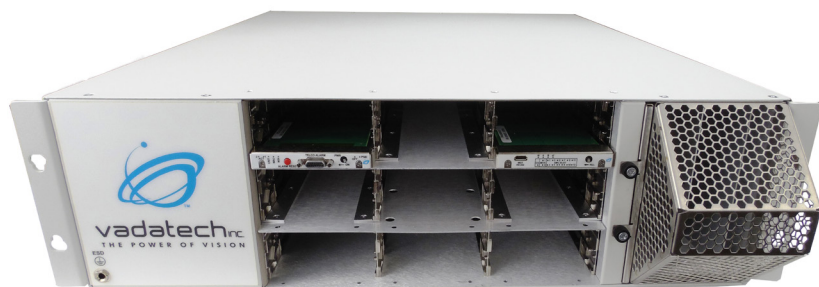


VT884 – 3U μ TCA Chassis, 12 AMC, 40G

3U μ TCA Chassis, 12 AMCs, 40G



KEY FEATURES

- Twelve mid-size single module AMC slots (option to have double-width modules)
- Dual MicroTCA Carrier Hub (MCH)
- PinoutPlus™ support, 2nd tongue on all AMC slots
- Front to back cooling
- Up to 85W per AMC slot
- AMC.1, AMC.2, and AMC.3 compliant
- TCLKA, TCLKB, TCLKC, TCLKD and FCLKA with advanced redundancy capability
- Redundant 2+1 power supply
- JSM Support

40G

Benefits of Choosing VadaTech

- Vast performance density with dual 40G across 12 slots in a 3U chassis (option for double-width modules)
- High bandwidth local interconnects via innovative PinoutPlus™
- Redundant, hot-swappable power
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

The VT884 is a 3U μ TCA chassis that provides twelve mid-size AMC slots that can accept any AMC.1 (ports 4 to 11), AMC.2 (ports 0 and 1) and AMC.3 (ports 2 and 3 are routed to adjacent slots). It provides FCLKA, TCLKA, TCLKB, TCLKC and TCLKD to each slot with clock redundancy between the two MCH modules. The Chassis has 40GbE capabilities.

With dual MCH installed the VT884 routes dual 40G to each slot on ports 4-7 and 8-11. The module provides Private lanes on the PinoutPlus™ on tongue 2, providing 16 lanes of high-bandwidth point-to-point connectivity. The use of the tongue 2 connector complies with the AMC.0 specification.

The power supplies, air filter and fan trays are all hot swappable.

VT884 – 3U μ TCA Chassis, 12 AMC, 40G

COOLING AND TEMPERATURE SENSORS

The VT884 has intelligent cooling units. The cooling unit has redundant fans within the each fan unit. The cooling airflow is from front to back. The removable air filter has a switch to detect its presence and can be monitored for when it needs to be replaced.

There are numerous temperature sensors in the chassis that monitor the intake and the outtake air temperature throughout the chassis.

POWER SUPPLIES

The VT884 allows up to three 1100 w power supplies. The input voltage is from 110-240V AC (frequency from 47-63 Hz).

TELCO ALARM

The VT884 provides Telco Alarm functionality to alert about any anomaly within the chassis. The Telco Alarm is provided via a Micro DB-9 as well as LEDs in the front to show any anomaly. The Telco Alarm has its own dedicated slot.

FRU INFORMATION AND CARRIER LOCATOR

The VT884 has FRU information and a Carrier Locator. The Carrier Locator is assigned by mechanical dip switches which are easily accessible via the front panel. The MCH reads the Locator via its private I2C bus.

SCORPIONWARE™ SOFTWARE

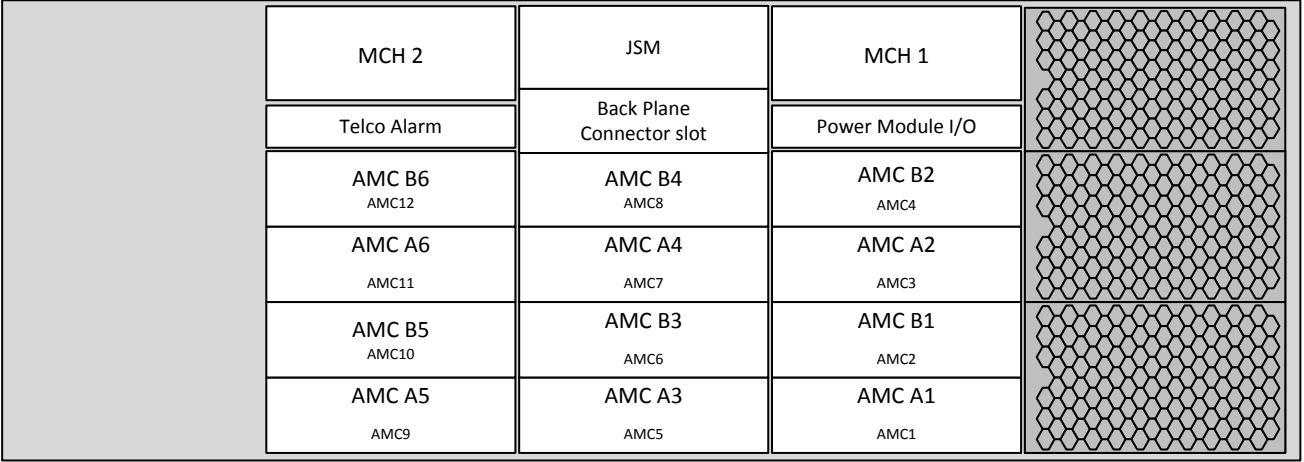
VadaTech's Scorpionware software can be used to access information about the current state of the Shelf or the Carrier, obtain information such as the FRU population, or monitor alarms, power management, current sensor values, and the overall health of the Shelf. The software GUI is very powerful, providing a Virtual Carrier and FRU construct for a simple, effective interface.

REAR VIEW



CHASSIS CONFIGURATION

Front View



Rear View

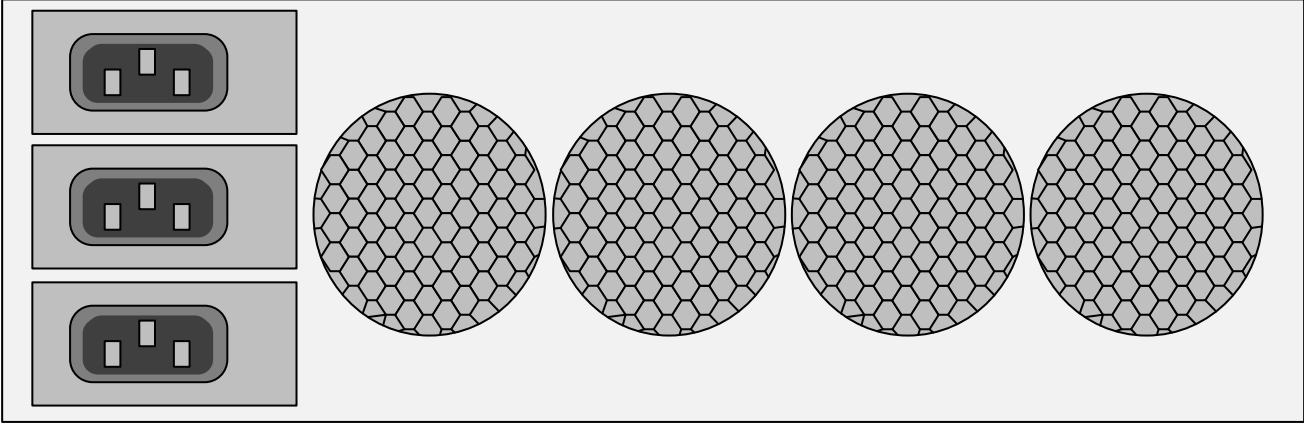


Figure 1: VT884 Chassis Layout

AIR FLOW

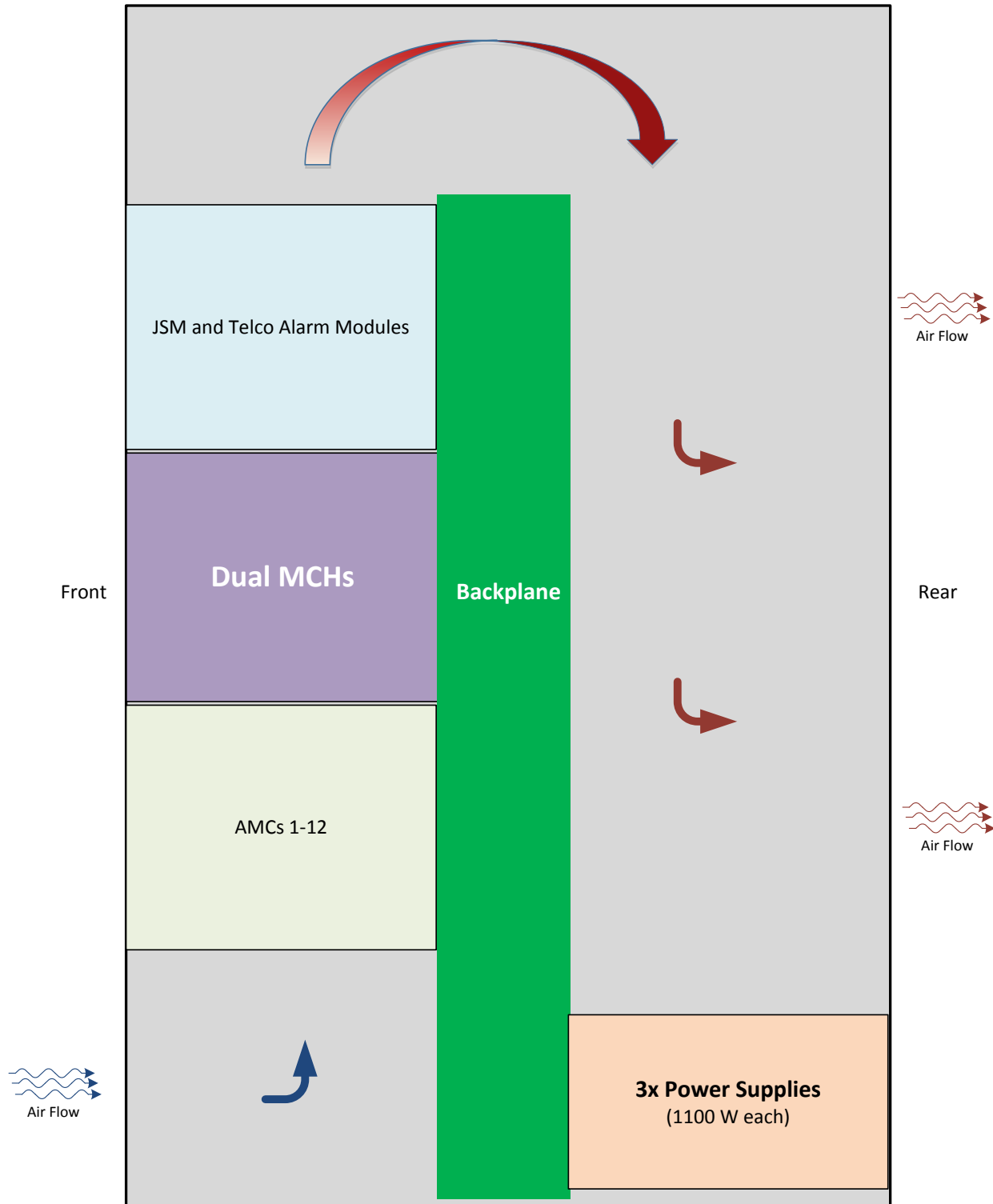


Figure 2: VT884 Top Level Functional Block Diagram

BACKPLANE CONNECTIONS

PRIMARY CONNECTOR

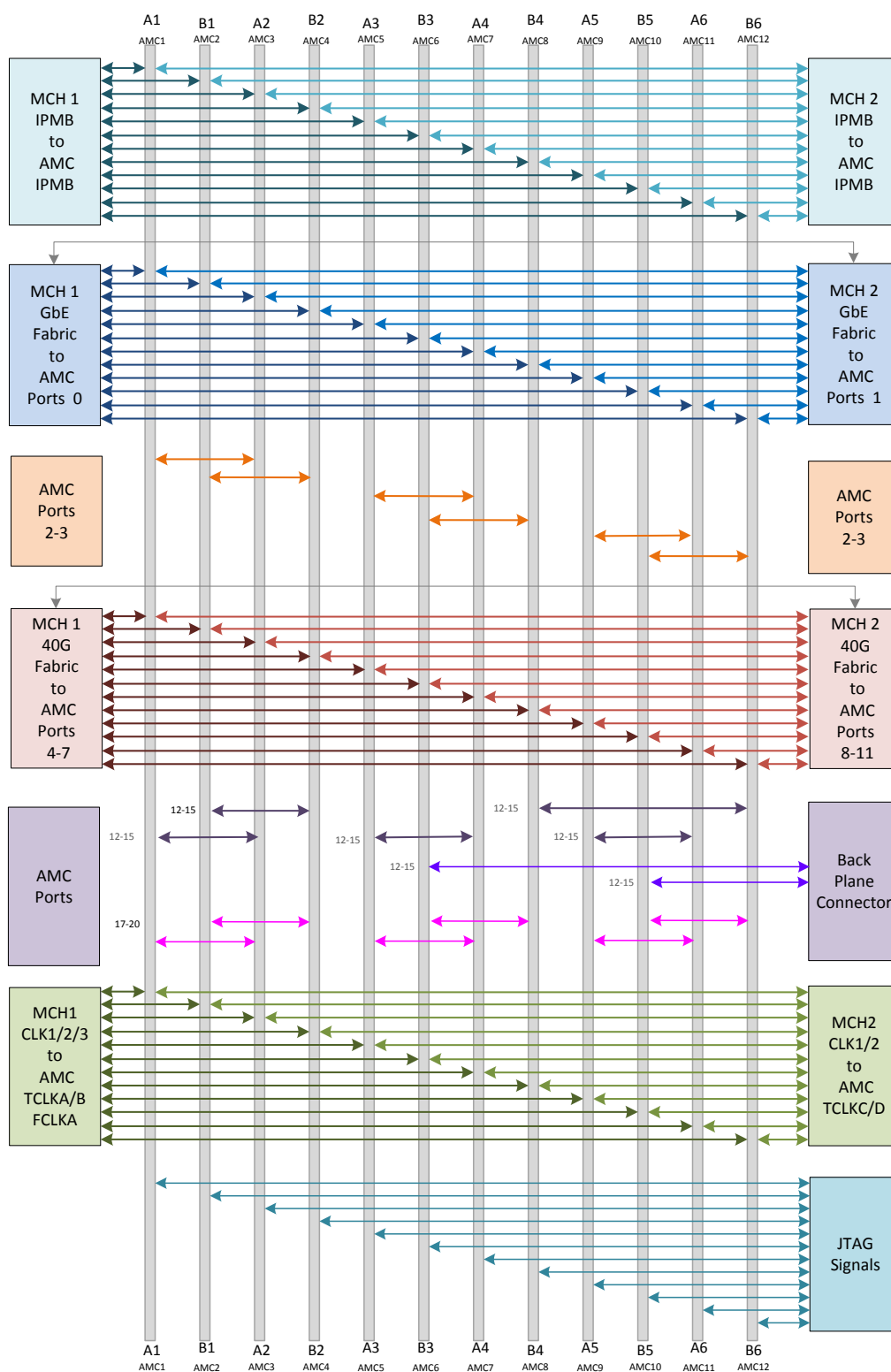
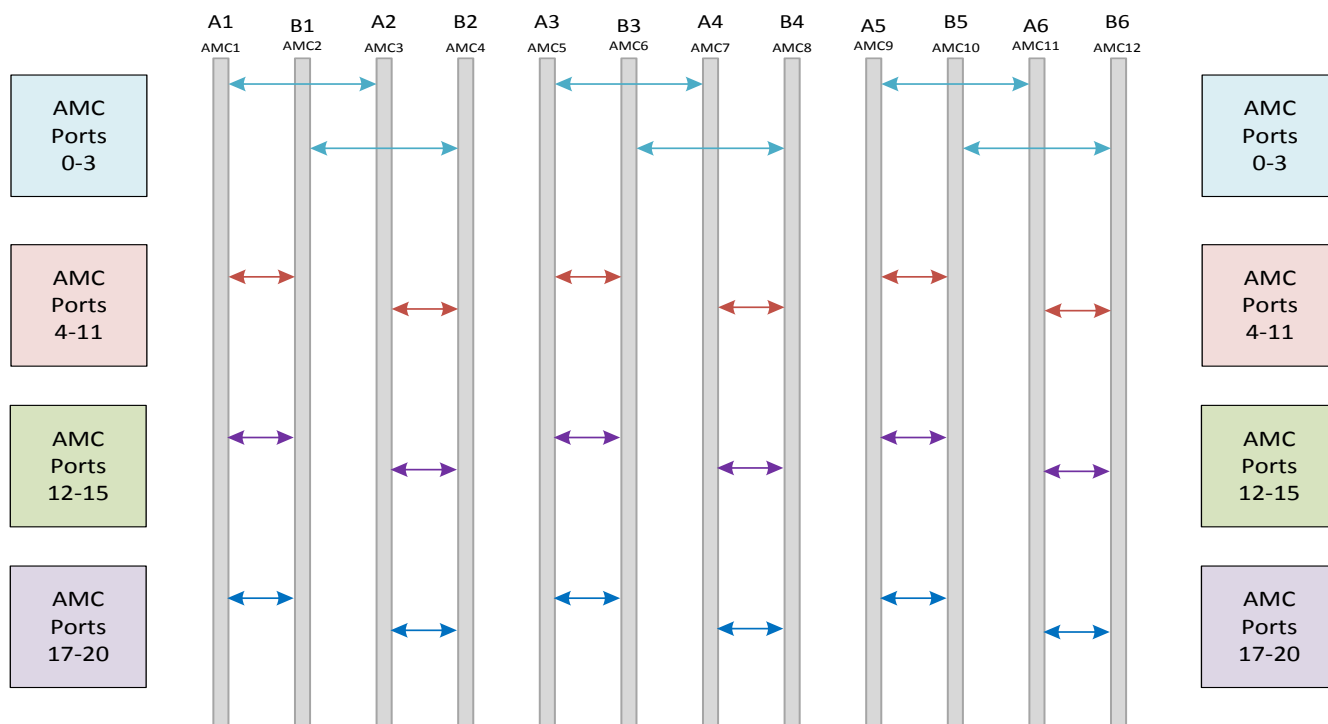


Figure 3: VT884 Backplane Connections on Primary AMC Connector

SECONDARY CONNECTOR



SPECIFICATIONS

Architecture		
Physical	Dimensions	Height 3U
		Width 19"
		Depth 23.6"(600 mm)
Type	μ TCA Chassis	12 AMC.0 mid-size slots
Standards		
AMC	Type	AMC.0, AMC.1, AMC.2, AMC.3
μ TCA	Type	PICMG 3.0 Rev 3.0
Module Management	IPMI	Version 2.0
Configuration		
Power	VT884	1100W per supply (up to three)
		110-240 VAC with frequency from 47-63Hz or DC -36V to -75V
Environmental	Temperature	Operating Temperature: -5° to 55° C (55° C for limited time, performance restrictions may apply)
		Storage Temperature: -40° to +90° C
	Vibration	0.5G RMS, 20-20,000 Hz random (Operating): 6G RMS (non-operating)
	Shock	30G on each axis
	Relative Humidity	5 to 95 percent, non-condensing
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
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	

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.

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ORDERING OPTIONS

VT884 – ABC – D00 – 00J

A = Power Supply

- 1 = Single (1100W, AC)
- 2 = Dual Supply (1100W, in 1+1 redundant, AC)
- 3 = Dual Supply (2200W, non-redundant, AC)
- 4 = Triple Supply (2200W, 2+1 redundant, AC)
- 5 = Single (1100W, DC -36V to -75V)
- 6 = Dual Supply (1100W, in 1+1 redundant, DC)
- 7 = Dual Supply (2200W, non-redundant, DC)
- 8 = Triple Supply (2200W, 2+1 redundant, DC)

B = Second Tongue

- 0 = None
- 1 = Installed

C = JSM

- 0 = None
- 1 = Installed

J = Temperature Range & Coating

- 0 = Commercial, No coating
- 1 = Commercial, Humiseal 1A33 Polyurethane
- 2 = Commercial, Humiseal 1B31 Acrylic
- 3 = Industrial, no coating
- 4 = Industrial, Humiseal 1A33 Polyurethane
- 5 = Industrial, Humiseal 1B31 Acrylic
- 6 = Military, Humiseal 1A33 Polyurethane*
- 7 = Military, Humiseal 1B31 Acrylic*

RELATED PRODUCTS



AMC720 Core i
Processor



UTC018 1000W AC
Power Module



AMC515 Virtex-7
FPGA

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