



# V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-mTCA-1U-BM

## Product Data Sheet

### Overview:

The VRM-mTCA-1U-BM offers the performance benefit of MicroTCA in a space-saving horizontal-mounted 1U height. Six AdvancedMC (AMC) slots offer users the flexibility to configure for a wide range of applications, enterprise, industrial control, telecom, wireless, and others. Its unique card guide design eases the insertion/removal of AMC cards. The replaceable backplane improves the serviceability of the system. VRM-mTCA-1U-BM equips with higher performance cooling unit – over 100 CFM of airflow through the chassis – for better thermal profile. If your applications demanded the highest computing performance with space and power constraint, VRM-mTCA-1U-BM is your solution.

### Features:

- Horizontal-mounted six slots 1U 19" rack-mounted enclosure
- 380W or 760W DC Managed power supply
- Supporting Full, Mid, or Compact AMCs
- Up to two redundant hot swappable managed cooling units
- Removable air filters
- 1U 19" EIA rack mount
- Up to 6 AMC slots
- 1 MCH slot
- 1 Power module (PM) slot
- 1 2HP JTAG switch module (JSM) slot
- Up to 2 hot swappable cooling units (CU)
- Maximum 60W per AMC slot
- Maximum 60W per MCH slot
- Removable air filter
- Patented card rail design for ease of insertion/removal AMC cards



### Cooling Units

- 4 push-pull fans per CU with each fan rated at 20CFM
- Individual-controlled fan speed
- Straight through side-to-side cooling
- Fully managed, redundant, and hot swappable
- Monitored fan power for early failure detection
- Air filter removed detection
- Mini-USB Diagnostic port

### Power Module

- MicroBlade Panther 380 or 760 PM compatible
- 365W or 740W typical output power
- -48V or -60V DC
- Mini-USB diagnostic port

### Filler Panel (Optional)

- Compact, Mid, and Full front panel
- Insertion/extraction mechanics
- Optimized air flow

### Default Configuration

- One (1) Panther 380 PM
- One (1) Cooling Unit + Air Filter

### Environmental and Regulatory Compliances

- Operating Temperature: 5C to 40C
- Storage Temperature: -45C to 85C
- Shock and Vibration: Level DL1, IEC 61587-1
- FCC Part15 Class A, EN 55022, EN 55024
- EIA/RoHS Compliant, PICMG MicroTCA.0 R1.0

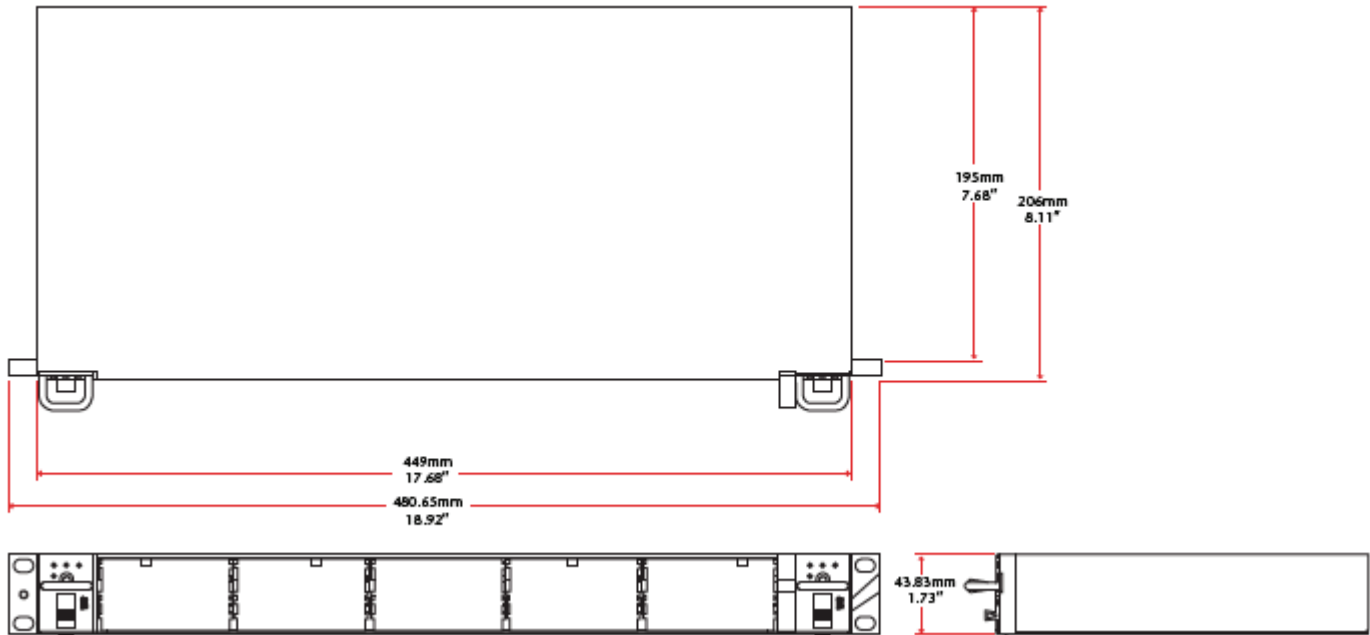


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CU 1	MCH	MCH	AMC Mid-Size	AMC Mid-Size	AMC Mid-Size	CU 2
	JSM 2HP	Filler Panel 2HP	AMC Mid-Size	AMC Mid-Size	AMC Mid-Size	

Front View



Backplane

