



MICROBOX™ PLUS 2U MICROTCA ENCLOSURE

MicroBoxPlus 2U MicroTCA enclosure offers system designers the most performance per U in a fully redundant configuration. Twelve AdvancedMC (AMC) slots give users the flexibility to configure for a wide range of applications, enterprise, industrial control, telecom, wireless, and others.

MicroBoxPlus' unique card guide design eases the insertion/removal of AMC cards. The replaceable, redundant fabric backplane improves the serviceability of the system. MicroBoxPlus equips with higher performance cooling unit – over 200 CFM of airflow through the chassis – for better thermal profile.

If your applications demanded the highest computing performance with space and power constraint, MicroBoxPlus 2U is your solution.

Features at a glance:

- > Horizontal-mounted twelve (12) slots 2U 19" rack-mounted enclosure
- > Up to two 380W or 760W DC managed power supply
- > Supporting Full, Mid, or Compact AMCs
- > Supporting up to two (2) MicroTCA Carrier Hubs (MCH)
- > Up to two (2) redundant hot swappable managed cooling units
- > Removable air filter
- > Patent Pending

MICROBLADE®

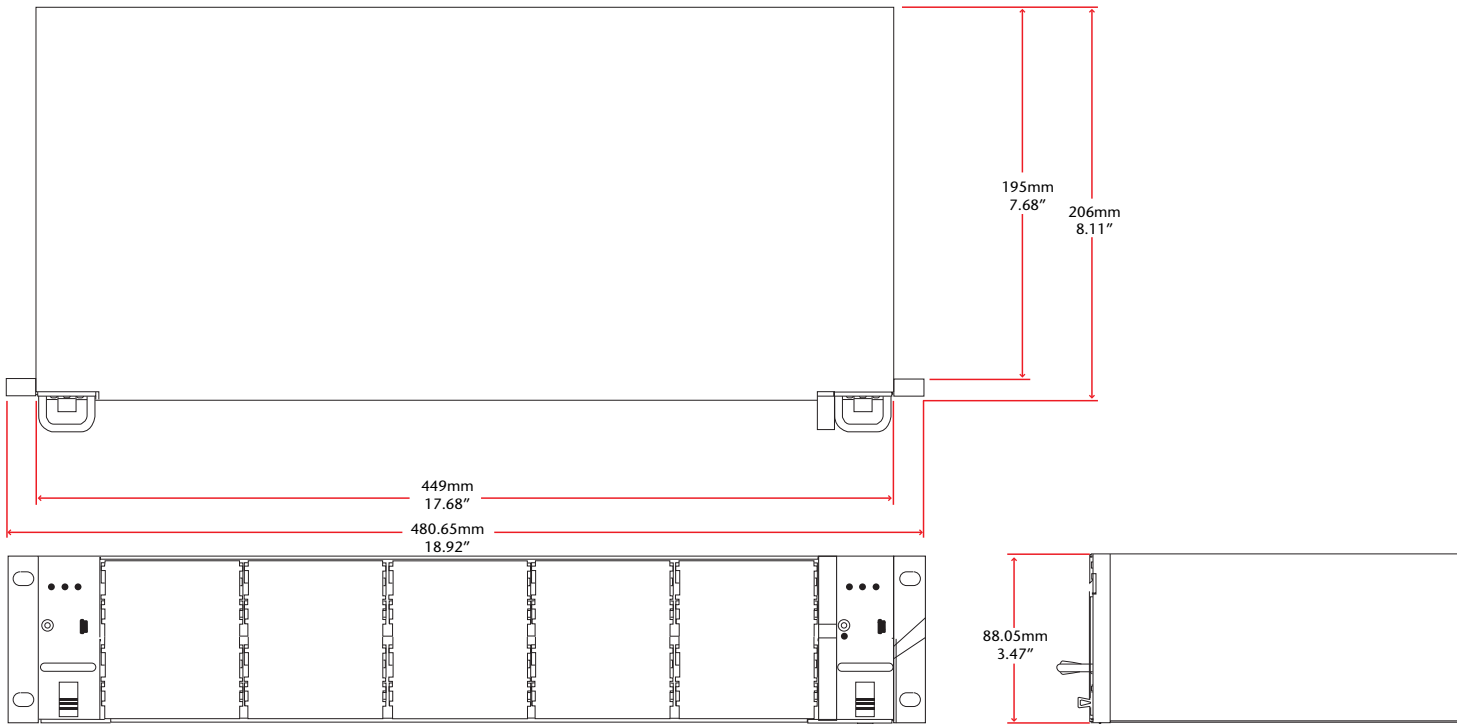
MicroBlade™

www.microblade.us

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CHASSIS

MicroBoxPlus Dimensions



- > 2U 19-inch EIA rack mount
- > Up to 12 AMC slots
- > 2 MCH slots
- > 2 Power module (PM) slot
- > 1 2HP JTAG switch module (JSM) slot
- > Up to 2 hot swappable cooling units (CU)
- > Maximum 56W per AMC slot
- > Maximum 56W per MCH slot
- > Removable air filter
- > Patented card rail design for ease of insertion/removal AMC cards

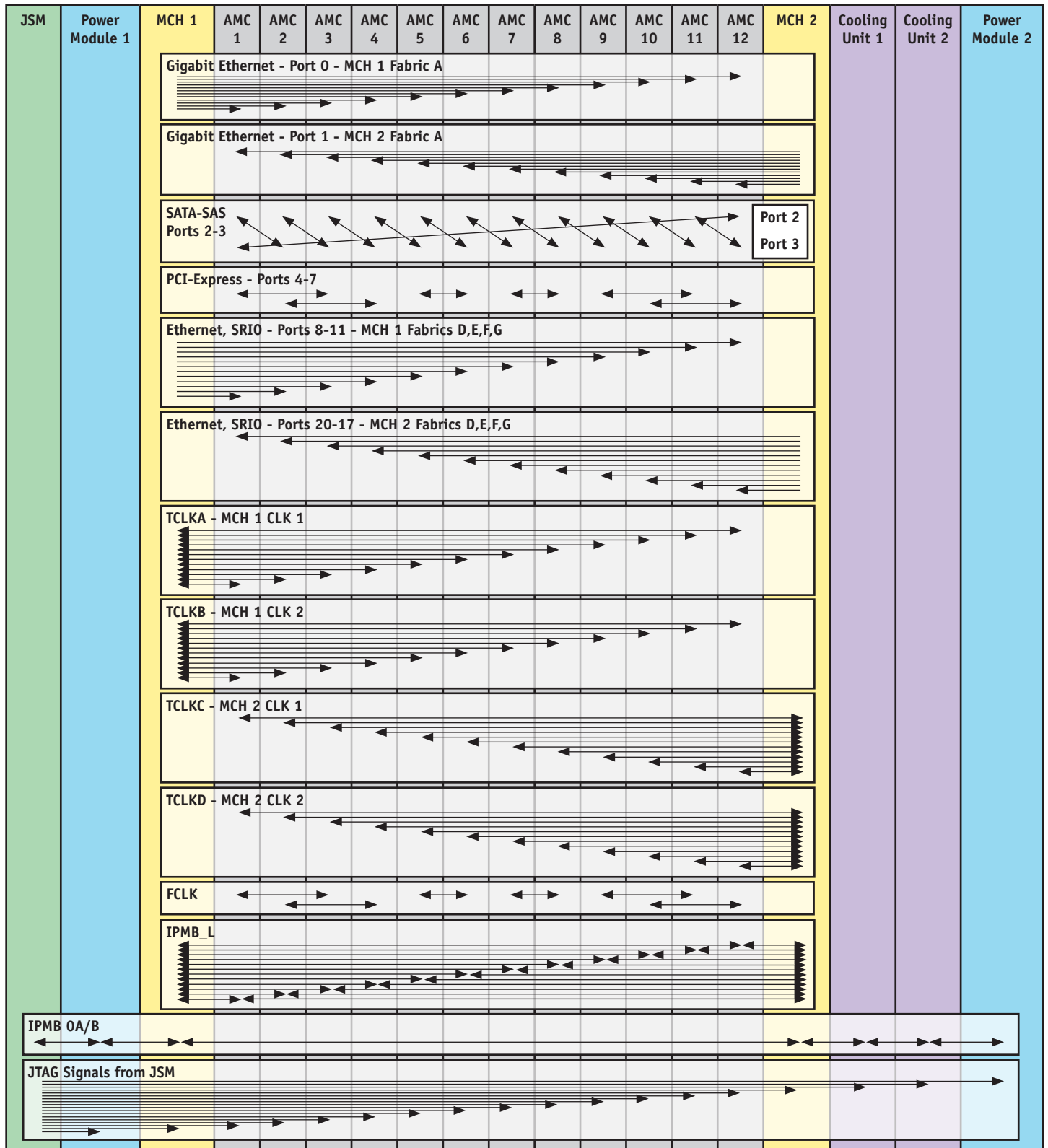
MicroBoxPlus Front View



BACKPLANE

- > Redundant backplane fabric
- > 1 GbE routed to AMC Port 0
- > Point-to-point SATA/SAS Port 2 & 3
- > 4x PCI Express Port 4-7
- > TCLKA, TCLKB, TCLKC, TCLKD and FCLKA to each AMC
- > sRIO, Ethernet Fabrics D,E,F,G Port 8-11 & 17-20
- > JTAG
- > FRU ROM
- > IPMI
- > JSM
- > Replaceable backplane

MicroBoxPlus Backplane Topology



Sample Configuration

CU 1	PM2	MCH2	AMC4 Mid-Size Single	AMC8 Mid-Size Single	AMC12 Mid-Size Single	CU 2
	Filler Panel or HDD	Filler Panel or HDD	AMC3 Mid-Size Single	AMC7 Mid-Size Single	AMC11 Mid-Size Single	
	PM1	MCH1	AMC2 Mid-Size Single	AMC6 Mid-Size Single	AMC10 Mid-Size Single	
	JSM	Filler Panel or HDD	AMC1 Mid-Size Single	AMC5 Mid-Size Single	AMC9 Mid-Size Single	

COOLING UNITS

- > 8 push-pull fans per CU with each fan rated at 20 CFM
- > 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



Cooling Unit

POWER MODULE

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



Panther™ 760 & 380 Power Module

DEFAULT MICROBOXPLUS CONFIGURATION

- > One (1) Panther 380 PM
- > Two (2) Cooling Units
- > Air Filter

ENVIRONMENTAL/REGULATORY/COMPLIANCE

- > Standard operating temperature: +5 C to +40 C
- > Storage temperature: -45 C to 85 C
- > Shock and vibration: Level DL1, IEC 61587-1
- > FCC Part 15, Class A
- > EN 55022
- > EN 55024
- > EIA Compliant
- > RoHS Compliant
- > PICMG MicroTCA.0 R1.0



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