



MICROBOX™ PLUS 1U MICROTCA ENCLOSURE

MICROBLADE®

MicroBlade™
www.microblade.us
608 729.5370

MicroBoxPlus (or μ BoxPlus) 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.

MicroBoxPlus is follow-on of MicroBlade's MicroBox product line. Its unique card guide design eases the insertion/removal of AMC cards. The replaceable backplane improves the serviceability of the system. MicroBoxPlus equips with higher performance cooling unit – over 100 CFM of airflow through the chassis – for better thermal profile.

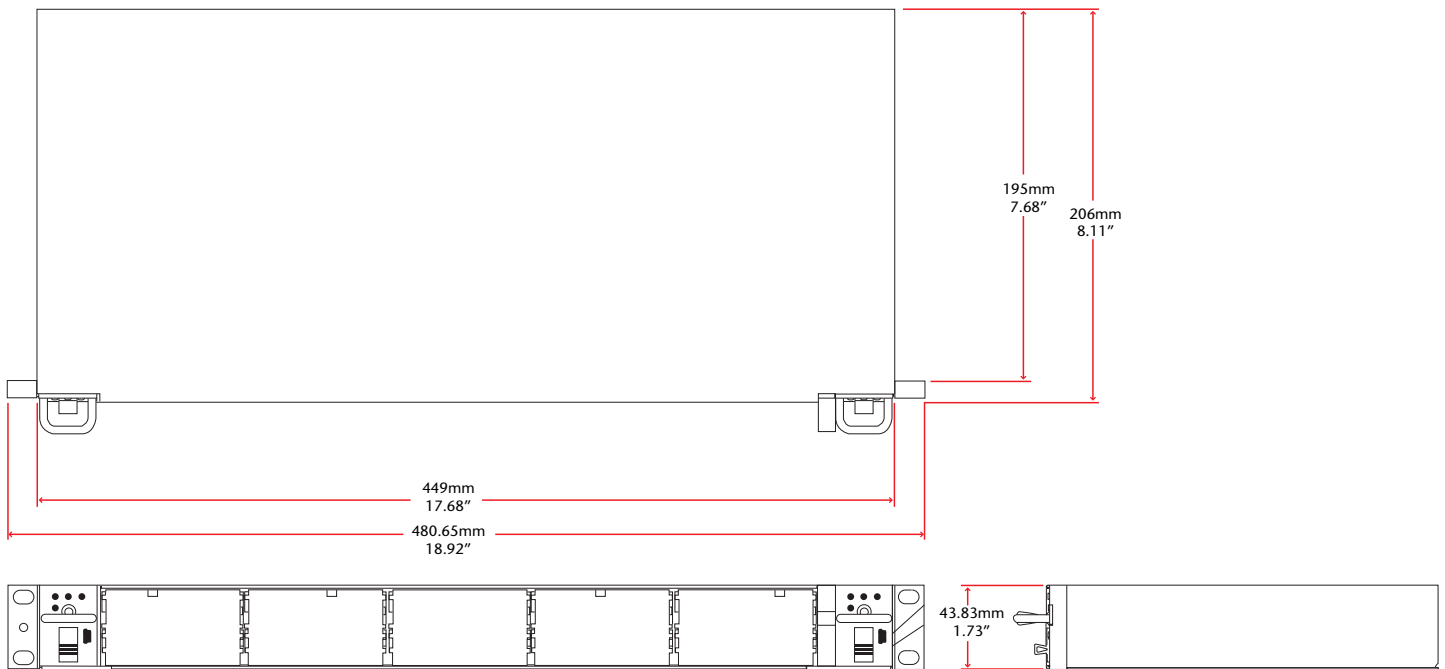
If your applications demanded the highest computing performance with space and power constraint, MicroBoxPlus is your solution.

Features at a glance:

- > 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 aire filters

CHASSIS

MicroBoxPlus Dimensions



- > 1U 19-inch 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

MicroBoxPlus Front View



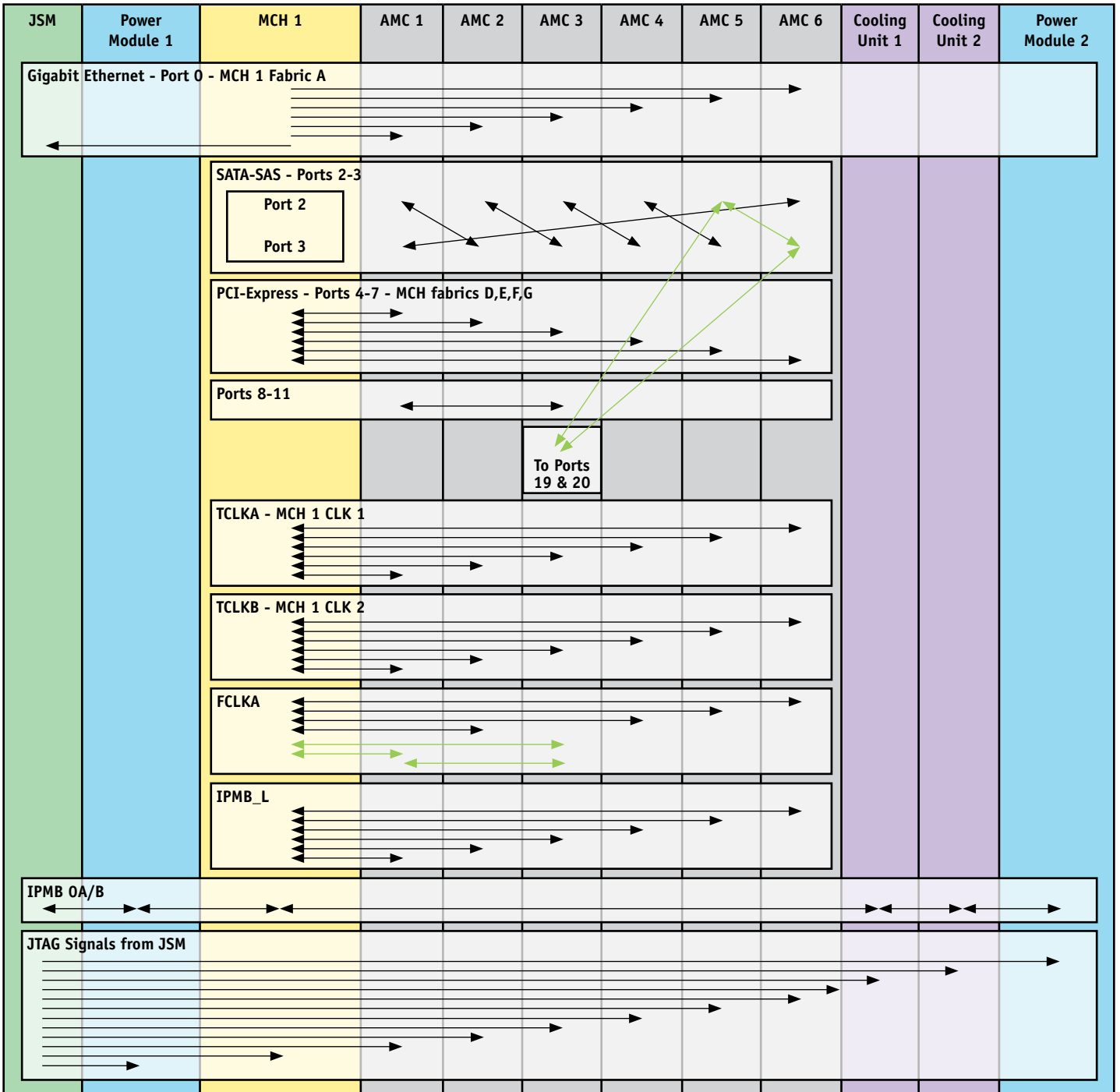
MicroBoxPlus Backplane



BACKPLANE

- > 1 GbE routed to AMC Port 0
- > Point-t-point SATA/SAS Port 2 & 3
- > 4x PCI Express Port 4-7
- > TCLKA, TCLKB, and FCLKA to each AMC
- > JTAG Connector
- > FRU ROM
- > IPMI
- > Replaceable backplane

MicroBoxPlus Backplane Topology



All arrows in GREEN are options that can be configured to customer preferences

Sample Configuration

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	

COOLING UNITS

- > 4 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™ 380 Power Module

FILLER PANEL (OPTIONAL)

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

DEFAULT MICROBOXPLUS CONFIGURATION

- > One (1) Panther 380 PM
- > One (1) Cooling Unit
- > 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



MicroBlade™
6410 Enterprise Lane
Suite 120
Madison, WI 53719
www.microblade.us
608 729.5370