3U 12-Slot MicroTCA System
MTCA-3U2A/ MTCA-3U2D

Shelf Overview

- Form factor: 3U height, 19"

- **MTCA-3U2x-1**: Provide 10 AMC Single Full-size slots (or 4 Double Full-size + 2 Single Fill-size slots)

  MTCA-3U2x-2: Provide 10 AMC Single Full-size slots

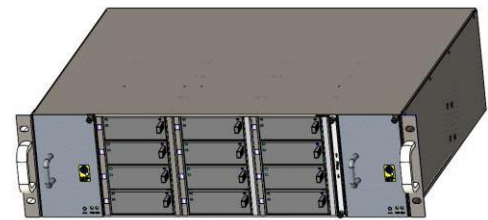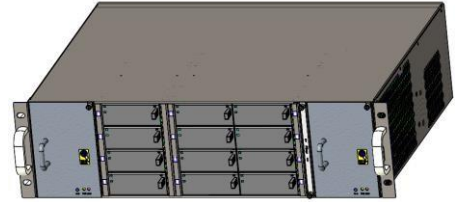- Provide 2 MCH slots (Single Full-size)

Backplane

- Fabric interface with differential rate up to 3.125Gbps、6.25Gbps、10.3125Gbps

- Synchronization clock provided in accordance with AMC specification

- IPMB for shelf management communications

Shelf Management

- Radial topology for the IPMB communication

- Support standard IPMI shelf management

- Support customized I2C shelf management

Power and Cooling

- AC input, two 2000W or 800w AC/DC power modules provided

- DC input, two 2000W or 800w DC power modules provided

- 2 hot-swap Fan Trays for cooling

- Air flow from right to left

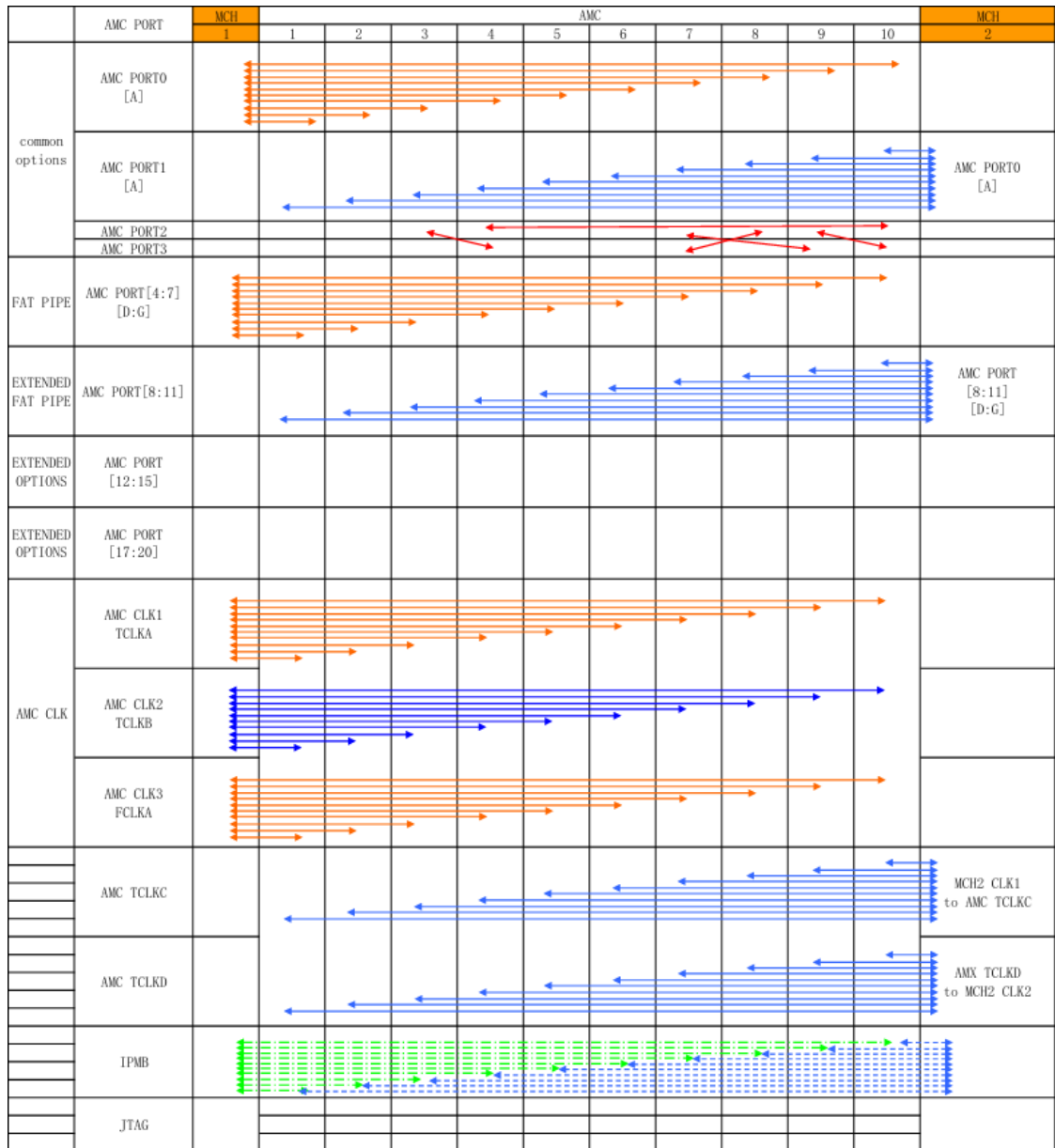MTCA-3U2A-1/ MTCA-3U2D-1 3U 12-Slot MicroTCA

MTCA-3U2A-2/ MTCA-3U2D-2 3U 12-Slot MicroTCA

System is designed based on MicroTCA specifications, which is ideal for the high-density AMC applications as well the hardware platform migration.

Product Specifications

Appearance MTCA-3U2x-1		
MTCA-3U2x-2		
Dimensions		

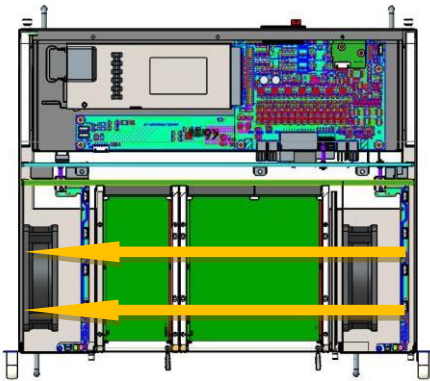| Backplane Topology		AMC PORT	MCH 1	AMC 1	2	3	4	5	6	7	8	9	10	MCH 2
	common options	AMC PORT0 [A]												
		AMC PORT1 [A]												AMC PORT0 [A]
		AMC PORT2												
		AMC PORT3												
	FAT PIPE	AMC PORT[4:7] [D:G]												
	EXTENDED FAT PIPE	AMC PORT[8:11]												AMC PORT [8:11] [D:G]
	EXTENDED OPTIONS	AMC PORT [12:15]												
	EXTENDED OPTIONS	AMC PORT [17:20]												
	AMC CLK	AMC CLK1 TCLKA												
		AMC CLK2 TCLKB												
		AMC CLK3 FCLKA												
		AMC TCLKC												MCH2 CLK1 to AMC TCLKC
		AMC TCLKD												AMX TCLKD to MCH2 CLK2
		IPMB												
		JTAG												

Power Input

AC Input（Standard configuration）:

- Two 1+1redundent 220V AC input
- Two 1+1 redundant hot-swap Power Module (800W or 2000W AC/DC)
- 800W Power Module supports AC input of 100~240V, 2000W Power Module supports AC input of 90~264V
- Power Monitor functionality

DC Input （Standard configuration）:

- Two 1+1redundent 48V DC input
- Two 1+1 redundant hot-swap Power Module (800W or 2000W DC)
- 800W Power Module supports DC input of -40~ -72V, 2000W Power Module supports DC input of -40~ -72V or 40~60V
- Power Monitor functionality

Cooling		• 2 hot-swap Fan Trays for cooling • Air flow from right to left • Fan Tray management interface support to standard MicroTCA specification (default configuration) • Fan Tray management interface also support to customized I2C management interface (Optional configuration)
Shelf Management		• The 3U MicroTCA System provide 2 MCH slots, 2 intelligent Power Modules FRU, 2 intelligent Fan Trays FRU • Standard MCH management ---Compliant to NAT MCH • Standard MCH management ---Provide customized IPMI extension interfaces according to the application requirement • Customized MCH management ---Provide Self-defined I2C management interfaces • Customized MCH management ---Provide AMC auto power on functionality without IPMI message control
Environment		• Operating Temperature: 0° C to 50° C，Storage Temperature: -20° C to 80° C • Operating Humidity: 5% to 95% R.H non-condensing，Storage Humidity: 5% to 95% R.H
Standard		• RoHS , Designed for CE, FCC, NEBS Level 3 • Compliant to PICMG MicroTCA Base Specification

Ordering Information

Product Class	Product Code	Description
MTCA-3U2A-1	MTCA-3U2A-1-800	3U 12-Slot MicroTCA System，Two 220V AC Power Input，Two 800W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2A-1	MTCA-3U2A-1-2000	3U 12-Slot MicroTCA System，Two 220V AC Power Input，Two 2000W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2D-1	MTCA-3U2D-1-800	3U 12-Slot MicroTCA System，Two 48V DC Power Input，Two 800W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2D-1	MTCA-3U2D-1-2000	3U 12-Slot MicroTCA System，Two 48V DC Power Input，Two 2000W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2A-2	MTCA-3U2A-2-800	3U 12-Slot MicroTCA System，Two 220V AC Power Input，Two 800W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2A-2	MTCA-3U2A-2-2000	3U 12-Slot MicroTCA System，Two 220V AC Power Input，Two 2000W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2D-2	MTCA-3U2D-2-800	3U 12-Slot MicroTCA System，Two 48V DC Power Input，Two 800W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
MTCA-3U2D-2	MTCA-3U2D-2-2000	3U 12-Slot MicroTCA System，Two 48V DC Power Input，Two 2000W Power Module（1+1Redundancy），Standard MicroTCA IPMI Monitoring
Remark：Please specify the Product Code clearly in the order.		