

» OM6063 «



AdvancedMC™

μTCA™



1U 19" MicroTCA System - OM6063

Flexible operation

- » PCIe/sRIO paired slots (ports 4...7)
- » 10GbE Switched Fabric (ports 8...11)
- » Simple MCH or fully featured MCH

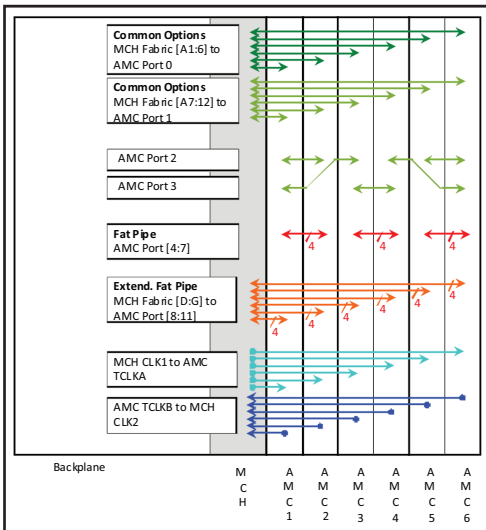
Optimized size and power

- » 6 mid-size single AMC slots + full size MCH slot in only 1U
- » Open Frame 400W AC PSU
- » Power Management & Cooling on Backplane EMMC

OM6063

The OM6063 is a flat and compact 1U system concept for high-end processor modules and switches beyond 1Gbit/s and positions MicroTCA at 10 Gbits/s. This allows in just a 1U form factor the accommodation of 6 state-of-the-art multi core CPUs such as Intel® Core™ i7 on Kontron's AM4022, Freescale™ QorIQ™ on Kontron's AM4140, as well as Kontron's 1Gbit switch AM4901 or 10Gbit switch AM4910. Designed for compute-intensive applications the modular platform is dedicated for applications in the communications area. Typical applications are: VoIP, Network Security, IP-PBX, Enterprise Routers and Switches, Application Servers, Media Gateway, Mesh Networks, and WiMAX.

Backplane Architecture



Technical Information

Physical Dimensions

Form Factor

H x W x D 43.6mm x 482.6mm x 301.0mm

Backplane architecture

Slots

Backplane for 1 full-size single and 6 midsize single modules full-size slot MCH mid-size slots 1-6 AMCs

System interconnect

- » AMC port 0, 1: GbE dual star topology
- » AMC port 2, 3: SATA as point-to-point interconnect (see figure)
- » AMC ports 4-7: x4 lanes as point-to-point interconnect between adjacent slots
- » AMC ports 8-11: MCH fabric [D...G] star topology, x4 lanes

IPMI

Radial IPMI-L from the MCH slot to all AMC slots IPMB-O between MCH, the PM and the CU: Bused IPMB-A and IPMB-B configuration

Power

400W open frame AC power supply with 90-240VAC input and 12 VDC output Power management (switching, 3V3 generation) integrated on backplane

Cooling

Front pluggable Cooling Unit with four fans for cooling the AMCs and one fan for cooling the power supply Fan controller board communicating with the MCH over IPMB-O

Environmental & Regulatory

Temperature range

- » -5°C to +45°C operating temperature (-5°C to +55°C short term)
- » -50°C to +70°C (storage)

Shock & Vibration

According MicroTCA.0

Safety

IEC60950-1

Emission

EN55022, EN61000-6-3

Immision

EN55024, EN61000-6-2

Climatic Humidity

IEC60068-2-78

RoHS

Directive 2002/95/EC
Directive 2011/65/EU

Ordering Information

Article

OM6063-1U-400W-AM4901

Description

6 slot 1U MicroTCA system with MCH AM4901, unmanaged GbE switch, 400W AC PSU

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