

# » OM6040D «



**AdvancedMC™**

**μTCA®**



## MicroTCA System - OM6040D Compact AMC Platform

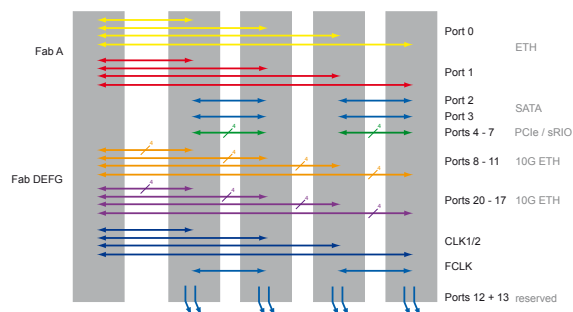
- » Compact entry-level platform for high-end multi-core processor AMCs
- » 42 HP / 5U system dimension
- » Supports double-width, full-size AMCs for high power envelope up to 80W
- » 1/10 GbE fabric with enterprise-class MCH
- » Up to two cost optimized PSUs
- » Power switching and fan control integrated in backplane
- » 1 x MCH slot + 4 x AMC slots + 2 x PSU slots

# OM6040D

The OM6040D is a compact entry-level system concept for high-end processor modules and switches beyond 1Gbit/s and positions MicroTCA at 10 Gbits/s allowing the accommodation of state-of-the-art multi-core CPUs such as Intel QuadCore XEON on Kontrons AM5030, as well as Kontrons 10Gbit switch AM4910. The system supports the 5U MicroTCA form factor (double-width AMCs) with 80 Watts per AMC.

Designed for compute-intensive applications the modular platform is dedicated for applications in the industrial automation, image processing and medical market which benefit from the processing power of a high-performance AMC module like the AM5030 and high-speed fabric of 10GbE on the backplane.

## Backplane Architecture



## Technical Information

<b>Physical Dimensions</b>	
Form Factor	234.45 mm x 217.70mm x 230.70mm (H x W x D)
<b>Backplane architecture</b>	
Slots	Backplane for 5 Full-size Double-width Modules Slot 1,2 PSUs Slot 3 MCH Slot 4-7 AMCs
System interconnect	<ul style="list-style-type: none"> <li>» AMC port 0, 1: GbE dual star topology</li> <li>» AMC port 2, 3: SATA as point- to-point interconnect between adjacent slots</li> <li>» AMC port 4 - 7: PCIe x 4 as point- to-point interconnect between adjacent slots</li> <li>» AMC port 8 - 11, 17 - 20: 10 GbE dual startopology</li> </ul>
IPMI	Radial IPMI-L from the MCH slot to all AMC slots
Power	2 slots for 2x 300W AC PSUs
Cooling	<ul style="list-style-type: none"> <li>4 auto restart, brushless DC motor, radial fans:</li> <li>» Maximum air flow: 1.824 m³/min x 4</li> <li>» Power consumption: max. 8.4 watts x 4</li> <li>» Acoustical noise: 65.2 dB</li> </ul>
<b>Environmental &amp; Regulatory</b>	
Temperature range	<ul style="list-style-type: none"> <li>» -5°C to +45°C (depending on processor version and airflow in the system)</li> <li>» -40°C to +70°C (storage)</li> </ul>
Shock & Vibration	According MicroTCA.1 XR1 ( DL3 )
Safety	IEC60950-1
Emission	EN55022, EN61000-6-3
Immission	EN55024, EN61000-6-2
Climatic Humidity	IEC60068-2-78
WEEE	Directive 2002/96/EC
RoHS	Directive 2002/95/EC

## Ordering Information

Chassis	Description
OM6040DR-5U-2x300W (AM4910)	4 Slot double-width, full-size MicroTCA System, 2x300W, MCH (AM4910), 1/10 GbE Switch

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