Six Slot MicroTCA® Cube Development System with Intel® Processor based AdvancedMC™ Module

Key Features
This modular MicroTCA® Cube development system, based on open standards, is available for lab and desktop use.

- Supplied with built in AC power supply, backplane and cooling fans for ease of use
- Backplane configured for 3x Mid-size and 2x Full-size modules plus a MicroTCA Carrier Hub (MCH)
- Option for an Intel® processor based AdvancedMC™ module to suit application requirements:
  - select from a range of performance, memory, graphics and networking options
  - board support packages available for popular operating systems
- Optional mass storage module
- Additional slots for extra processor or application specific modules

Option Example: Populated Cube Development System
(with MCH and processor board)
MicroTCA Cube Development System

- MicroTCA® Cube based development system:
  - 6 vertically mounted Single Module board slots
  - supports PICMG® MicroTCA.0 R1.0 and PICMG AMC.0 R2.0
  - option for pre-installed MicroTCA Carrier Hub (MCH) with Carrier Manager firmware built-in
  - option for pre-installed Intel® processor based AMC module (slot 1) including MCH
  - board hot swap control (AMC.0)
  - clock distribution supporting Telecom clock from internal or external source
  - cooling air intake at the bottom of the system
  - air exhaust at top of the system
- MicroTCA backplane provides 5 payload slots and an MCH slot:
  - 2 x Single Module Full-size module slots
  - 3 x Single Module Mid-size module slots
  - 4-port data plane configured as single star topology via MCH slot
  - 1-port control plane configured as single star topology via MCH slot
- pre-installed processor AMC module includes:
  - on-board SATA Flash Module for application software
  - software support packages
- contact your local Concurrent Technologies sales office for further details on all system options

Example: Empty Development System

- option for empty system (chassis) without MCH and without processor module:
  - 5 payload slots empty

Example: System with MCH Only

- fabric option: PCI Express® Fat Pipes Region with pre-installed MCH
- fabric option: RapidIO® Fat Pipes Region with pre-installed MCH
- 5 payload slots empty

Example: PCI Express System

- option for PCI Express Fat Pipes Region with pre-installed MCH (slot 6) and processor module (slot1):
  - 4 payload slots empty
- plus option for an AMC Mass Storage module (AM 600/301 in slot 3)

Example: RapidIO System

- option for RapidIO Fat Pipes Region with pre-installed MCH (slot 6) and processor module (slot1):
  - 4 payload slots empty
- plus option for an AMC Mass Storage module (AM 600/301 in slot 3)

Software Support

- supports Linux®, Windows® and VxWorks®:
  - proprietary Board Support Package
  - operating system not supplied
- optional Fabric Interconnect Networking Software (FIN-S):
  - allows applications on multiple processor boards to efficiently communicate with each other over the fabric
  - see separate datasheet
  - FIN-S is ordered separately
- IPMI version 1.5 (AMC.0) support included as part of development system
- contact your local sales office for further details

Power Supply

- removable Power Supply Unit:
  - +12V output
  - rated power 300 Watt
  - AC 100-240V, 50Hz to 60Hz input

Safety

- PCBs (PWB) manufactured with flammability rating of UL94V-0
- CE mark

Environmental Specification

- operating temperatures:
  - +5°C to +40°C (operating)
  - -25°C to +65°C (storage)
- Relative Humidity, non-condensing:
  - 10% to 85% (operating)
  - 5% to 85% (storage)

Mechanical Specification

- chassis weight including AMC modules is 4.7 kg (10.3 pounds)
- chassis dimensions:
  - width 7.8-inch (197mm) x depth 9.9-inch (252mm) x height 6.2-inch (158mm) (legs retracted)
  - height 8.0-inch (202mm) (legs extended)

Optional Accessory

AM 600/301 AMC Mass-Storage

- optional Single Module Mid-size board (slot 3)
- fitted with 2.5-inch SATA mass storage drive