Two Slot MicroTCA® Pico Development System with Processor based AdvancedMC™ Module

Key Features
SY AM1/x22 is a cost effective MicroTCA® Pico development system for the evaluation of Concurrent Technologies’ Intel® or NVIDIA® based AdvancedMC™ modules.

- Two slot system designed for application development and demonstration purposes
- Includes AC power supply and cooling fans
- Available with two free slots or with a processor module and one free slot for an additional module

Option Example: RapidIO Pico System with GPGPU AMC
MicroTCA Pico Development System

- MicroTCA® Pico based development system:
  - 2 horizontally mounted Single Module board slots
  - option for 2 x Mid-size slots or 2 x Full-size slots
  - supports PICMG® MicroTCA.0 R1.0 and PICMG AMC.0 R2.0
  - option for pre-installed Intel® processor based AMC module
  - option for pre-installed general-purpose GPU (GPGPU) based AMC module
  - cooling air intake/exhaust at the sides of the system (right to left) with fan speed control
  - rubber feet for desktop use
  - systems can be stacked (and stapled together)
  - board hot-swap is not supported

- MicroTCA backplane provides 2 AMC slots:
  - all 21 ports (0-20) connected between both slots
  - all AMC clocks connected between both slots
  - data transfer rates of up to 10 Gbps per port
  - pre-installed processor AMC module includes:
    - on-board SATA Flash Module for application software
    - software support packages
  - pre-installed GPGPU AMC module includes:
    - 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 AMC modules

Example: RapidIO System + CPU AMC

- option for RapidIO Fat Pipes Region with pre-installed processor AMC module:
  - 1 x AM C14/143 Single Module Full-size (4th generation Intel® Core™ processor)
  - second slot is empty

Example: RapidIO System + GPGPU AMC

- option for RapidIO Fat Pipes Region with pre-installed GPGPU AMC module:
  - 1 x AG A12/112 Single Module Full-size (2 x NVIDIA® Tegra® K1 processors)
  - second slot is empty

Software Support

- supports Linux® and some systems support 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
  - contact your local sales office for further details

Power Supply

- integrated Power Supply Unit:
  - +12V output
  - rated power 150 Watt
  - AC 100-240V, 50Hz to 60Hz input

Safety

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

Environmental Specification

- operating temperatures:
  - +0°C to +45°C (operating)
  - -25°C to +65°C (storage)
- Relative Humidity, non-condensing:
  - 5% to 85%

Mechanical Specification

- chassis weight excluding AMC modules is approximately 2 kg (4.4 pounds)
- chassis dimensions:
  - width 9.9-inch (252mm) x depth 11.9-inch (302mm) x height 1.7-inch (43.6mm)

Please contact your local Concurrent Technologies sales office for further details on board build options and accessories.