

4 AMC Slots, MicroTCA™ Starter Kit



APPLICATIONS

The SY AMC/104 is a MicroTCA™ starter kit for use with single-width AdvancedMC™ (AMC) modules. This 5 slot system is configured to provide engineers with a practical, high performance, high quality development environment for MicroTCA applications. The chassis is a desk-mounting enclosure providing 4 vertically mounting AMC slots on a MicroTCA backplane, with a 250W integrated power supply.

To enable fast track development, the system comes pre-installed with a dual-core processor AMC, mass storage and graphics AMC, and a PCI Express® MicroTCA Carrier Hub. The system uses standard Concurrent Technologies products allowing easy progression from development to implementation.

HIGHLIGHTS

- MicroTCA™ Starter Kit:
 - supports 4 single-width AMC modules
 - supports PICMG® MicroTCA.0 1.0 and PICMG AMC.0
- MicroTCA Backplane provides 5 vertically mounted card slots:
 - 4 AMC single-width full-height slots
 - 1 MicroTCA Carrier Hub (MCH) slot
- Pre-installed system boards:
 - 1 x Intel® Core™ 2 Duo AMC SBC
 - 1 x Hard Disk Drive/Graphics AMC
 - 1 x MicroTCA Carrier Hub
- Pre-installed system I/O features include:
 - 1 x RS232 port, 1 x USB 2.0 ports, CRT/DFP Graphics
 - 2 x Gigabit Ethernet Serdes ports (AMC.2)
 - 2 x Serial ATA interfaces (AMC.3)
 - x4 PCI Express® fabric ports (AMC.1), SBC via MCH
 - 2 x Ethernet ports (1 port via MCH front panel)
- IPMI (Intelligent Platform Management Interface):
 - IPMI Version 1.5 (AMC.0)
- Hot swap compliance (AMC.0)
- Integrated power supply:
 - 250W
 - AC 90-264V, 47Hz to 63Hz input via standard IEC connector at rear of unit
- Cooling system
- Carrier Manager firmware built-in
- System support for Linux®, Windows® Server 2003, Windows® XP, Windows® XP Embedded and QNX®

MicroTCA Starter Kit

- MicroTCA™ Starter Kit:-
 - supports single-width AMC modules
 - supports PICMG® MicroTCA.0 1.0 and PICMG AMC.0
- MicroTCA Backplane provides 5 vertically mounted card slots:-
 - 4 AMC single-width full-height (5 HP) slots
 - 1 MicroTCA Carrier Hub (MCH) (5 HP) slot

Configuration

- pre-installed system boards:-
 - 1 x AM 110/102 2.16 GHz Intel® Core™ 2 Duo AMC SBC
 - 1 x AM 400/101 SATA hard disk drive and graphics AMC
 - 1 x MT MCH/001 MicroTCA Carrier Hub
- available slots for AMC development:-
 - 2 x single-width full-height slots
- hot swap control (AMC.0)

AM 110/102 Processor AMC SBC

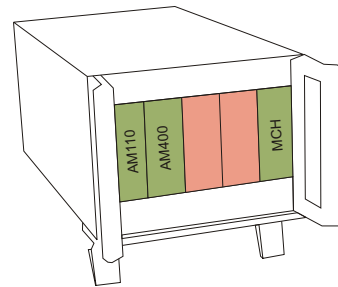
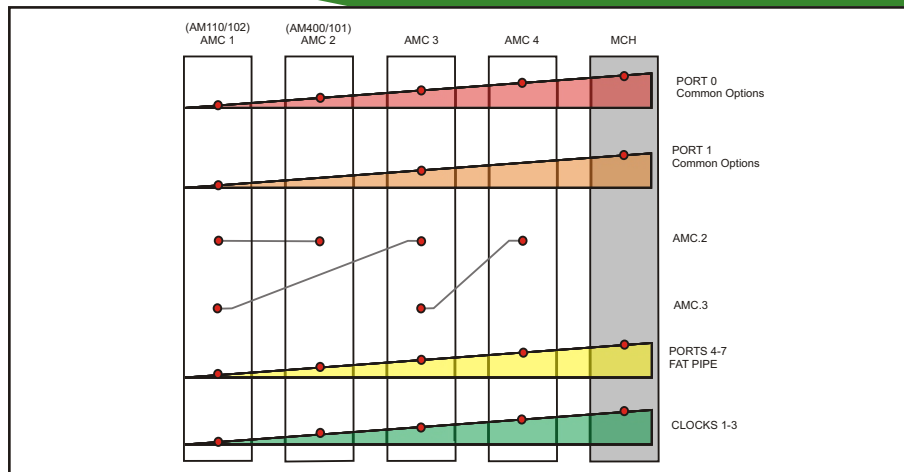
- single-width full-height AMC module
- uses 2.16 GHz Intel® Core™ 2 Duo processor:-
 - 667 MHz Front Side Bus
 - 4 Mbytes shared L2 on-die cache
- 4 Gbytes DDR2-400 ECC SDRAM soldered on-board
- x4 PCI Express® fabric connection:-
 - AMC.1 Type 4
 - transfer rate up to 2 Gbytes/s
- 2 x SATA150 channel:-
 - AMC.3 Type S2
- 2 x Gigabit Ethernet channels:-
 - AMC.2 Type E2
 - supports Serdes type 1000BX via AMC connector
- 1 x RS232 channels
- 1 x USB 2.0 interfaces
- Watchdog timer and Long Duration Timer
- IPMI version 1.5 according to AMC.0

AM 400/101 Mass-Storage and Graphics AMC

- single-width full-height AMC module
- digital and analog dual display graphics:-
 - 8 Mbytes video memory
 - resolutions up to 1280 x 1024 @ 16M colors
- includes 1 x SATA150 hard disk assembly
- Serial ATA150 interface:-
 - AMC.3 Type S2
 - transfer rate up to 150 Mbytes/s
 - 1 x SATA connection on AMC Port 2
- IPMI version 1.5 according to AMC.0

Power Supply

- Integrated Power Supply:-
 - +12V output
 - +3.3V system management output
 - rated power 250 Watt
 - AC 90-264V, 47Hz to 63Hz input



AM110 = CCT Processor Card
 AM400 = CCT Storage and Graphics
 MCH = AMC Controller Hub

■ Fitted at factory
 ■ Available for Customer use

MT MCH/001 MicroTCA Carrier Hub

- MicroTCA Carrier Management Controller (MCMC):-
 - supports up to 5 AMCs, 1 cooling unit and 1 power module
 - front panel Ethernet management port
 - front panel Gigabit Ethernet upload port
 - IPMI Version 1.5 (AMC.0)
- base fabric 6-port unmanaged Gigabit Ethernet switch (AMC.2)
- PCI Express switch (AMC.1) providing switching for six x4 PCI Express links
- clock distribution module supporting:-
 - telecom clock from internal or external source
- Carrier Manager firmware built-in

Software Support

- support for Linux®, Windows® XP, Windows® XP Embedded, Windows® Server 2003 and QNX®
- starter kit supplied without operating system

Safety

- PCBs (PWB) manufactured with flammability rating of 94V-0

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 4.9Kg (10.8 pounds)
- chassis dimensions:-
 - 175.85mm(w) x 132.45mm(h) x 315.5mm(d)
 - (6.9 x 5.2 x 12.4 inches)

ORDERING INFORMATION

Order Number Product Description (Hardware)

SY AMC/104-10 MicroTCA Starter Kit with 4 AMC slots, (including MicroTCA Carrier Hub, 2.16 GHz Core 2 Duo SBC AMC, Graphics and SATA hard disk drive storage AMC)

CB DVI/121-00 DVI-A connector to VGA HD15 connector (this connector is supplied with the AM 400/101)
 CB DVI/122-00 DVI-I connector Y-split cable to VGA HD15 connector and DVI-D connector

For Concurrent Technologies' range of AMC modules, please contact your local sales office or visit their website www.gocct.com.

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