

6 Slot MicroTCA® Starter Kit



APPLICATIONS

The SY AMC/235 is a MicroTCA® starter kit for use with single-width AdvancedMC™ (AMC) modules. This 6 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 5 vertically mounting AMC slots and an MCH slot on a MicroTCA backplane, with a 300W removable power supply.

HIGHLIGHTS

- MicroTCA® Starter Kit:
 - supports 6 single-width modules
 - supports PICMG® MicroTCA.0 1.0 and PICMG AMC.0
- MicroTCA Backplane provides 6 vertically mounted card slots:
 - 2 x single-width full-height AMC slots
 - 3 x single-width mid-height AMC slots
 - 1 MicroTCA Carrier Hub (MCH) slot
- Pre-installed system boards:
 - 1 x Intel® Core™ i7 AMC SBC with 8Gbytes Flash Drive Module
 - 1 x Mass Storage AMC (optional)
 - 1 x MicroTCA Carrier Hub
- Pre-installed system I/O features include:
 - 1 x RS232 port, 1 x USB 2.0 port
 - 1 x DisplayPort
 - 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
 - 3 x Ethernet ports (1 port via SBC and 2 ports via MCH)
- IPMI (Intelligent Platform Management Interface):
 - IPMI supported on backplane (AMC.0)
- Hot swap compliance (AMC.0)
- Pluggable power supply:
 - 300W
 - AC 100-240V, 50Hz to 60Hz input via standard IEC connector at front of unit
- Cooling system
- Carrier Manager firmware built-in
- System support for Linux®, Windows® Server 2003, Windows® XP, Windows® XP Embedded, Windows® 7, Windows® Embedded Standard 7, VXWorks® and QNX®

Specification

MicroTCA Starter Kit

- the MicroTCA® Starter Kit:
 - supports single-width AMC modules
 - supports PICMG® MicroTCA.0 1.0 and PICMG AMC.0
- MicroTCA Backplane provides 6 vertically mounted card slots:
 - 2 x single-width full-height slots
 - 3 x single-width mid-height slots
 - 1 x MicroTCA Carrier Hub (MCH) slot

Configuration

- pre-installed system boards:
 - 1 x AM 310/302, dual-core 2.2 GHz Intel® Core™ i7-2655LE AMC SBC
 - 1 x MT MCH/002, MicroTCA Carrier Hub
- optional Mass Storage AMC
 - 1 x AM 600/301, fitted with 2.5-inch SATA HDD
- available slots for AMC development:
 - 2 x single-width full-height slots
 - 2 x single-width mid-height slot (1x when fitted with the optional mass storage AMC)
- hot swap control (AMC.0)

AM 310/302 Processor AMC SBC

- single-width mid-height AMC module
- utilizing the dual-core 2.2 GHz Intel® Core™ i7-2655LE processor:
 - 1333 MHz memory bus
 - 4 Mbytes last level cache
- 4 Gbytes soldered DDR3-1333 ECC DRAM
- 8 Gbytes Flash drive module
- x4 PCI Express® fabric connection:
 - AMC.1 Type 4
 - Gen 1 and Gen 2
 - transfer rate up to 4 Gbytes/s
- 2 x SATA300 channel:
 - AMC.3 Type S2
- 2 x Gigabit Ethernet channels:
 - AMC.2 Type E2
 - supports Serdes type 1000Base-BX via AMC connector
- front panel interfaces:
 - 1 x RS232 channel
 - 1 x USB 2.0 interface
 - 1 x Gigabit Ethernet port
 - 1 x DisplayPort (VGA via adaptor*)
- Watchdog timer and Long Duration Timer
- IPMI version 1.5 according to AMC.0

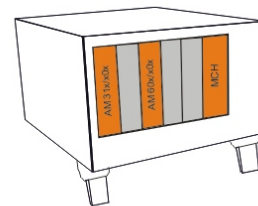
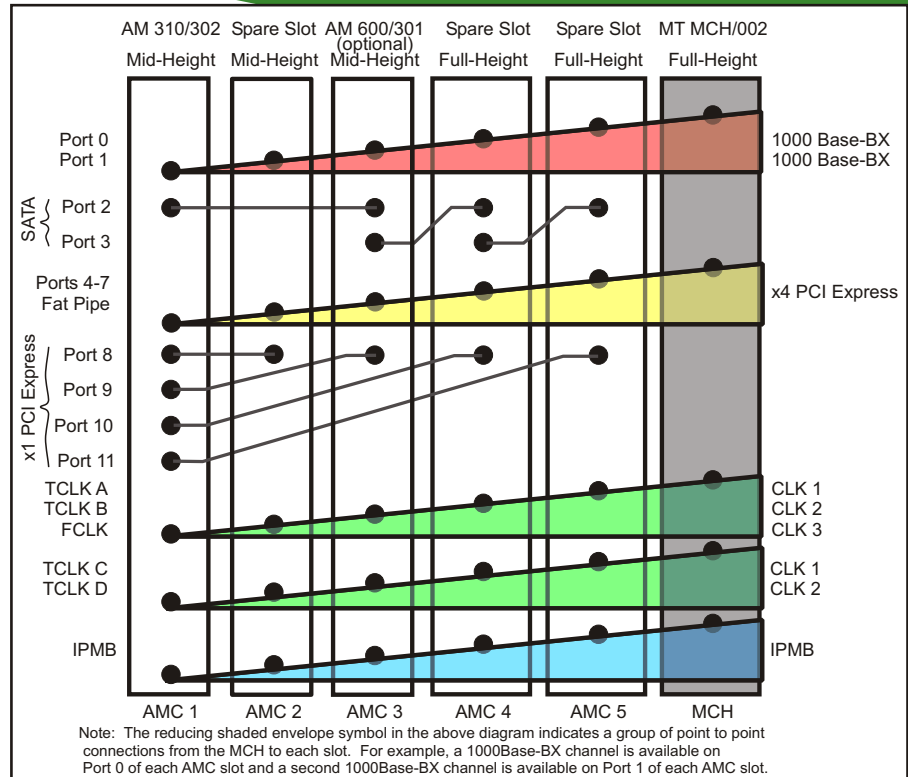
AM 600/301 Mass-Storage AMC (optional)

- single-width mid-height AMC module
- fitted with 2.5-inch SATA HDD
- SATA300 interface:
 - AMC.3 Type S2
 - transfer rate up to 300 Mbytes/s
 - 1 x SATA connection on AMC Port 2
- IPMI version 1.5 according to AMC.0

Software Support

- support for Linux®, Windows® Server 2003, Windows® XP, Windows® XP Embedded, Windows® 7, Windows® Embedded Standard 7, VXWorks® and QNX®
- starter kit supplied without operating system

* This DisplayPort only supports conversion to VGA output, it does not support conversion to DVI output



AM 310x02 = CCT Processor Card
AM 600x01 = CCT Storage
MCH = AMC Controller Hub
Fitted at factory
Available for Customer use

MT MCH/002 MicroTCA Carrier Hub

- MicroTCA Carrier Management Controller (MCMC):
 - supports up to 5 AMCs, 1 cooling unit and 1 power module
 - IPMI Version 1.5 (AMC.0)
- 2 x front panel Gigabit Ethernet ports:
 - 1 x Gigabit Ethernet upload port
 - 1 x Gigabit Ethernet upload port or MCH management port
- 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

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 94V-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 4.7Kg (10.3 pounds)
- chassis dimensions:
 - w 197mm (7.8 inch) x d 252mm (9.9 inch) x h 158mm (6.2 inch) - with legs folded
 - h 202mm (8.0 inches) - with legs extended

ORDERING INFORMATION

Order Number Product Description (Hardware)

- | | |
|---------------|--|
| SY AMC/235-10 | MicroTCA Starter Kit with 4 free AMC (2 mid-height and 2 full-height) slots, including MicroTCA Carrier Hub and 2.2 GHz Core i7 SBC AMC |
| SY AMC/235-15 | MicroTCA Starter Kit with 3 free AMC (1 mid-height and 2 full-height) slots, including MicroTCA Carrier Hub, 2.2 GHz Core i7 SBC AMC and SATA Mass Storage AMC |

For further information please contact your local Concurrent Technologies sales office

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