> AM4011

Processor AMC Module based on Intel® Core™2 Duo













➤ Ultra Performance

Intel® Core™2 Duo with 1.5 GHz

> Ultra Capacity

Up to 4 GB memory DDR2 400 MHz Up to 8 GB NAND Flash

➤ Ultra Flexibility

Flexible Gigabit and PCI Express fabric interface



> First class performance AMC module

Kontron's AdvancedMC processor module AM4011 provides outstanding performance in conjunction with comprehensive AMC interconnect capabilities designed according to the PICMG specifications AMC.0, AMC.1, AMC.2, AMC.3.

Ultra Performance

The AM4011 is a highly integrated CPU board implemented as a Single Mid-size or Full-size Advanced Mezzanine Card (AMC) Module. The design is based on the Intel® Core™2 Duo processor in 65 nm technology with 64 kB L1 and 4 MB L2 cache in a 479 FCBGA package combined with the Intel® 3100 server-class chipset providing a front side bus (FSB) of 667 MHz.

Ultra Capacity

The board includes up to 4 GB registered Double Data Rate (DDR2) memory with Error Checking and Correcting (ECC) running at 400 MHz. Two dual Gigabit Ethernet controllers each utilizing a x4 lane PCI Express interconnection to the Intel® 3100 chipset ensure maximum data throughput between processor and memory. The AM4011 further provides up to 8 GB Flash memory via an USB 2.0 NAND Flash Controller.

Ultra Flexibility

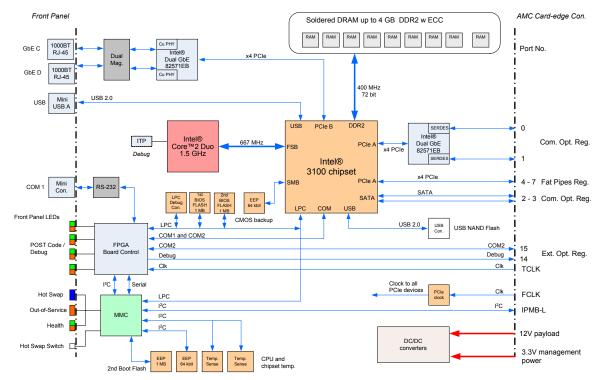
Supporting the PICMG sub-specifications AMC.1/.2/.3 the AM4011 ensures a comprehensive set of interconnecting capabilities to the AMC Carrier. A x4 PCI Express lane according to AMC.1 guarantees high throughput for I/O intensive applications. The dual Gigabit Ethernet controller realizing the AMC.2 interconnect utilizes a x4 lane PCI Express interface to the 3100 chipset ensuring maximum packet performance. Two SATA ports compliant to AMC.3 allow flexible usage models of the AM4011 depending on the application requirements. The AM4011 offers comprehensive front panel connectivity by 2x GbE RJ45 ports, 1x USB port, an RS232 interface realized via a mini 10-pin connector.

AMC everywhere

A comprehensive range of 'AMC everywhere' ATCA boards, such as ATCA carrier boards, CPU and hub boards are complementing Kontron's AMC product portfolio including the AM4011 module. Optimized for high-performance, packetbased telecom systems, the AM4011 is targeted towards, but not limited to telecom applications such as radio network controllers, storage control, routing and switching solutions in ATCA systems. Beyond the usage in ATCA systems the AM4011 complies to the MicroTCA standard dedicated for cost optimized communication applications.

Reliability

The careful design and selection of high temperature resistant components together with the elaborated heat sink construction ensures a high product availability. This, along with a high level of scalability, reliability, and stability, makes this state-of-the-art product a perfect core technology for long-life embedded applications.



Specification

System Processor	
System Processor	Tatel® Cove™2 Due 17/00 /IV\ 1.5 CU= 667 MU= 500 / MD I 2 code
	Intel® Core™2 Duo L7400 (LV), 1.5 GHz, 667 MHz FSB, 4 MB L2 cache
	The processor is passive cooled with a fanless heatsink.
	Forced air cooling at a specific flow rate is required.
Memory	The track of the first track of
System memory:	Up to 4 GByte (soldered) registered DDR2 400 MTz with ECC
NAND Flash:	Up to 8 GByte NAND Flash via onboard USB 2.0 Flash controller
Flash (BIOS):	Two redundant 1 MB Firmware hubs (FWH)
EPROM:	Serial EEPROM (24LC64) 64 kbit
Onboard Controller	
Intel® 3100 chipset with integrated	Three x4 PCI Express ports, DDR2 SDRAM memory controller with ECC, six SATA 150 ports, four USB 2.0 ports, two UARTs,
Memory and I/O Controller Hub:	RTC, Interrupt Controller, Timer
Gigabit Ethernet:	Two Intel® 82571EB dual Gigabit Ethernet PCI Express bus controller
Watchdog:	FPGA based, software configurable, two-stage Watchdog with programmable timeout ranging from 125 msec to 256 sec in 12 steps.
MMC:	Microcontroller with on-chip 512 kB Flash and 40 kB RAM, ext. 1 MB SPI Flash, 64 kbit EEPROM
AMC System Interconnect	
PCI Express:	One x4 PCI Express interface
	AMC fat pipes region port 4-7
Gigabit Ethernet:	1x 1000BASE-BX (SerDes) on AMC ports 0-1 (Common Options Region)
Serial ATA:	2x Serial ATA 150 ports on AMC ports 2-3 (Common Options Region) and 2x Serial ATA 150 ports on AMC ports 12-13 (Extended
	Options Region)
Serial Interface:	1x Serial Port (COM2) on AMC port 15 (Extended Options Region)
Front Panel	
	One USB 2.0 port on a 5-pin, mini USB type A connector
	OneSerial port (COM1) with RS-232 signal level on a mini 10-pin connector
	Two Gigabit Ethernet ports on two RJ-45 connectors
	Three Module Management LEDs
	Four User-Specific LEDs
MMC Module Management Controller	
	Microcontroller with 40 kB RAM and redundant 512 kB Firmware Flash with automatic roll-back strategy.
	The MMC carries out IPMI commands such as monitoring several onboard temperature conditions, board voltages and the power
	supply status, and managing hot swap operations.
	The MMC is accessible via a local IPMB (IPMB-L) and two host Keyboard Style Interfaces (KCS).
Compliancy	The MMC is accessible via a local IPMB (IPMB-L) and two host Keyboard Style Interfaces (KCS).
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ATCA: MicroTCA: MicroTCA: AMC: IPMI: PCI Express: Serial ATA: CE: Vibration/Shock: Climatic Himidity: WEEE: RoHS: Power Consumption AM4011 with Core 2 Duo, 1.5 GHz, 2 GB General Dimensions: MTBF: Software Support AMI BIOS, BIOS parameters saved in EEPR Serial over Lan, Support for Redhat Linux, Environmental Operating temp.:	PICMG 3.0 AdvancedTCA Base Specification R2.0 PICMG MTCA.0 Micro Telecommunications Comp. Architecture R1.0 PICMG AMC.0: Advanced Mezzanine Card Specification R2.0 PICMG AMC.1: PCI Express and Advanced Switching R1.0 PICMG AMC.2: Gigabit Ethernet R1.0 PICMG AMC.3: Storage Interfaces R1.0 IPMI Intelligent Platform Management Interface Spec. V2.0 IPMI - Platform Management FRU Information Definition V1.0 PCI Express Base Specification Revision 1.0a Serial ATA 2.5 Specification EN55022, EN55024, EN61000-6-2/-6-3, EN300386, EN60950-1 IEC60068-2-6 / IEC60068-2-27 IEC60068-2-78 Directive 2002/96/EC Directive 2002/95/EC max. 36 W 181.5 mm x 73.5 mm x 18.96 mm (Mid-size/Single-width), 181.5 mm x 73.5 mm x 28.95 mm (Full-size/Single-width) 223,951 h acc. Bellcore Issue 6, Ground Benign, Controlled, 30 C OM, Boot order defined via MMC WRLinux PNE 2.0 (Q3/2008), VxWorks 6.6 SMP (Q3/2008) -5°C to +55°C (depending on system environment)
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ATCA: MicroTCA: MicroTCA: AMC: IPMI: PCI Express: Serial ATA: CE: Vibration/Shock: Climatic Himidity: WEEE: RoHS: Power Consumption AM4011 with Core 2 Duo, 1.5 GHz, 2 GB General Dimensions: MTBF: Software Support AMI BIOS, BIOS parameters saved in EEPR Serial over Lan, Support for Redhat Linux, Environmental Operating temp.:	PICMG 3.0 AdvancedTCA Base Specification R2.0 PICMG MTCA.0 Micro Telecommunications Comp. Architecture R1.0 PICMG AMC.0: Advanced Mezzanine Card Specification R2.0 PICMG AMC.1: PCI Express and Advanced Switching R1.0 PICMG AMC.2: Gigabit Ethernet R1.0 PICMG AMC.3: Storage Interfaces R1.0 IPMI Intelligent Platform Management Interface Spec. V2.0 IPMI - Platform Management FRU Information Definition V1.0 PCI Express Base Specification Revision 1.0a Serial ATA 2.5 Specification EN55022, EN55024, EN61000-6-2/-6-3, EN300386, EN60950-1 IEC60068-2-6 / IEC60068-2-27 IEC60068-2-78 Directive 2002/96/EC Directive 2002/95/EC max. 36 W 181.5 mm x 73.5 mm x 18.96 mm (Mid-size/Single-width), 181.5 mm x 73.5 mm x 28.95 mm (Full-size/Single-width) 223,951 h acc. Bellcore Issue 6, Ground Benign, Controlled, 30 C OM, Boot order defined via MMC WRLinux PNE 2.0 (Q3/2008), VxWorks 6.6 SMP (Q3/2008) -5°C to +55°C (depending on system environment)



Ordering Information

Article	Description
	Processor AMC
AM4011-1.5GHz-2M-mid	PrAMC, Intel® Core™2 Duo (LV), 1.5 GHz, 667 MHz FSB, 2 GB memory
AM4011-1.5GHz-4M-mid	PrAMC, Intel® Core™2 Duo (LV), 1.5 GHz, 667 MHz FSB, 4 GB memory
	Software
LIN-BSP-AM4011	Generic Linux Board Support Package, Documentation
	Accessories
FLASH-xxx	NAND-Flash in various capacities

AM4011 Platforms





Corporate Offices

Europe, Middle East & Africa

Oskar-von-Miller-Str. 1 85386 Eching/Munich

Tel.: +49 (0)8165/ 77 777 Fax: +49 (0)8165/ 77 219 sales@kontron.com

North America

14118 Stowe Drive Poway, CA 92064-7147 USA

Tel.: +1 888 294 4558 Fax: +1 858 677 0898 sales@us.kontron.com

Asia Pacific

17 Building,Block #1,ABP. 188 Southern West 4th Ring Road Beijing 100070,P.R.China Tel.: + 86 10 63751188 Fax: + 86 10 83682438 kcn@kontron.cn

Kontron Modular Computers GmbH

Sudetenstr. 7 87600 Kaufbeuren Germany

Tel.: +49 (0)8341/ 803-0 Fax: +49 (0)8341/ 803-499 sales@kontron.com

