

» AT8060«



Dual (up to) 8-Core Intel[®] Xeon[®] Processor E5-2600 Family

- » New 32nm multi-core Intel Xeon processor with high bandwidth, low latency, bi-directional ring interconnect for faster access to 20MB multi-banked last level cache; Hyperthreading (32 threads total)
- » Dual 8GT/s QPI interfaces between processors for lowest PCIe/memory latency
- » Total of 128GB Memory (Up to 64GB via 4 independent DDR3 channels per CPU)
- » Kontron Active Power Management via Power Node manager
- » 1 X AMC bay with PCIe x8 Gen2 + SATA connectivity
- » Rear Transition Module RTM8063 with 2 hot swap 2.5" SAS/SATA hard drives

AT8060

AdvancedTCA Multicore Processor Blade + RTM Increased Performance, Virtualization, Power Management

This is a sixth-generation Intel processor-based ATCA processor blade from Kontron and accommodates an AMC slot in conjunction with a dual socket, 8-core per processor approach. This enables further customization by populating the blade with other specialized AMCs including packet processing and storage modules.

The selection of the Intel® E5-2600 processor family will prove to be the best combination of performance, power efficiency and cost for numerous virtualization-optimized and high bandwidth network applications designed by Telecom equipment manufacturers (TEMs) for 4G LTE, IPTV/content delivery and carrier cloud computing networks.

Telecom, network and broadcast equipment vendors seeking new high performance system level designs will appreciate the boost in dual-socket, 8-core processing power complemented by new value-added, intelligent features.

This includes the new Kontron Active Power Management,

a software interface for clients to intelligently pre-set and regulate the processor power settings on its AdvancedTCA® processor blade via the Intel® Node Manager embedded in the Intel® Xeon® processor E5-2600 family.

Kontron has developed Active Power Management, a software interface for clients to intelligently pre-set and regulate the processor power settings on its AdvancedTCA® processor blade via the Intel® Node Manager embedded in the Intel® Xeon® processor E5-2600 family. The Active Power Management fully integrates existing Kontron Management Solutions and is accessible using known standards such as IPMI and PICMG® interfaces. It allows dynamic power monitoring, power capping controls, and power threshold alerting, thus enabling platforms to achieve maximum performance and power for a single node.

For supplemnetary storage, Kontron also introduces the RTM8063, a rear transition module built with 2 hot swap 2.5" SAS/SATA hard drives

Technical Information						
Processor	Dual (up to) 8-Core Intel® Xeon® Processor E5-2600 Family; Passive heatsink					
	Virtualization Technology supported; Intel TurboBoost					
	Data Direct I/O Technology (Intel® DDIO) to reduce memory accesses from I/O on local socket and speed up processor data transfers. Security features include Execute Disable (XD) and Intel® Trusted Execution Technology (Intel® TXT) for malware resistance, and Intel® AES New Instructions for data and asset protection.					
Cache Memory	High bandwidth, low latency, bi-directional ring interconnect allows faster access to 20MB multi-banked last level cache					
Chipset	Intel® C600 Chipset					
Bus interface	Dual up to 8.0GT/s QPI interfaces between both processors for lowest PCIe and memory latency					
Expansion slots	1 Mid-size AdvancedMC bay with PCIe x8 Gen2 + SATA connectivity					
System Memory	Total of 128 GB Memory, 4DIMMS per processor (Up to 64 GB across 4 independent DDR3 channels per processor)					
Flash Memory	Dual eUSB flash drive supported are 16GB or more capacity					
	Automatic BIOS settings content backup in flash memory					
	128kByte flash memory is connected to Intel Dual 10GB controller to store the iSCSI boot firmware					
Storage	Dual Hot-Swap SAS HDD via Rear Transition Module, RTM8063					
	Support for SATA GEN1 (1.5Gb/s), and GEN2 (3Gb/s) on the AMC storage interface					
I/0	Front Panel: Two SFP connectors to SerDes Ethernet interfaces of Quad port Ethernet controller, Serial (RJ-45) for RS-23 serial interface, 2 USB					
	Base Interface: Two 10/100/1000Base-T interfaces are provided by the 82576 controller					
	Fabric Interface: Both 82599 interfaces are configurable as 10Gb XAUI (10GBase-KX4) or 1Gbase-KX. All 4 ports are used in each channel to provide PICMG3.1 type 9 connectivity.					
Reliability	Targeted MTBF is 250000 @ 30°C, calculations based on Telcordia SR-332					
Safety / EMC	Safety: meets all requirements of UL/CSA/EN/IEC 60950-1					
	EMC: compliant with the Electromagnetic Compatibility Directive, EC Council Directive 2004/108/EC					
Board Specifications	PICMG3.0 R3.0; PICMG 3.1 R1.0 specification options 1 and 9					
	AMC.0 R2.0 specification; AMC.1 R2.0 specification type 1, 2, 4, or 8; AMC.3; HPM.1					
Target Certifications	Designed for NEBS Level 3					
RTM (RTM8063)	Regular PICMG3.0 Managed FRU/Hot Swap Dual SAS/SATA Hard Disk; 2x USB, 2x SFP, Serial RJ-45; and external SAS connector					

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Warranty Two ye	ardware system monitor (power/voltages), memor			
Warranty Two ye	IPMI Hardware system monitor (power/voltages), memory and all critical components' temperature are monitored			
	Extensive sensors monitoring (around 100 IPMI sensors) and event generation base on thresholds and discrete reading			
Power Requirements Board	Two years limited warranty			
* The p	Board power consumption is less than 315W; no RTM & no AMC. Power Policies can be used to control power requirements * The power consumption will vary depending on your product configuration (AMC, RTM & extra memory)			
Environmental Operat	ing	Storage and Transit		
	o +55 °C / 23 to 131°F	-40 °C to +85 °C / -10 to 185°F		
Humidity* 5% to	93% @40°C / 104°F	5% to 93% @40°C / 104°F		
non-co	ndensing	non-condensing		
Altitude* -300 n	to 4000 m / -984ft to 13,123 ft	-300 m to 14 000m / -9,84 ft to 45,931 ft		
Shock* 11 ms	half sine, 3 g, 3 shocks in each direction	6 ms half sine, 18 g, 100 shocks in each direction		
10 Hz	o 10 Hz @ +12 dB/oct (slope up) co 50 Hz @ 0.02 m2/s3 (0.0002 g2/ Hz) (flat) co 100 Hz @ -12 dB/oct (slope down)	5 to 200 Hz 0.2 g		

Intel Xeon Precessor E5-2600 Embedded Processor Series

Cores/Threads	Max Clock Speed	Cache	DDR3 Memory Channel	TDP
8 / 16	1.8 GHZ (up to 2.1 GHz)	20 MB	1600 MHz	70 W
8 / 16	2.1 GHz (up to 2.4 GHz)	20 MB	1600 MHz	95 W
6 / 12	2.0 GHz (up to 2.5 GHz)	15 MB	1333 MHz	95* W
	8/16 8/16	8 / 16 1.8 GHZ (up to 2.1 GHz) 8 / 16 2.1 GHz (up to 2.4 GHz)	8 / 16 1.8 GHZ (up to 2.1 GHz) 20 MB 8 / 16 2.1 GHz (up to 2.4 GHz) 20 MB	8 / 16 1.8 GHZ (up to 2.1 GHz) 20 MB 1600 MHz 8 / 16 2.1 GHz (up to 2.4 GHz) 20 MB 1600 MHz

^{*} E5-2620 is not "Hi-Tcase"

Configure your AT8060 Processor Blade and RTM

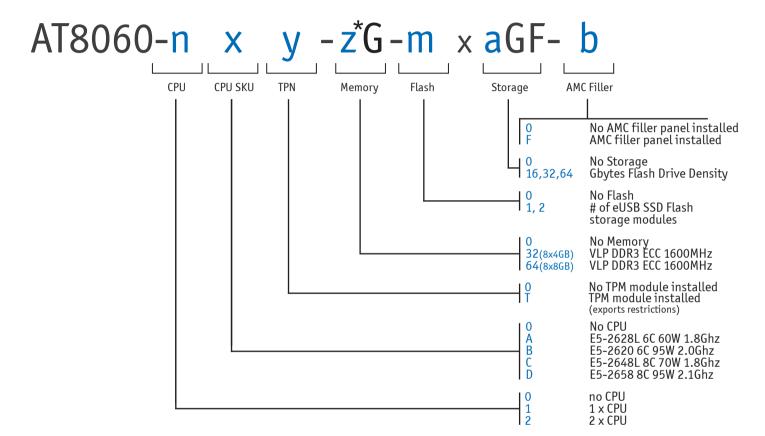
The Kontron AT8060 and its corresponding RTMs are available in numerous variations of processor SKUs and capacities. To help simplify your next order, please refer to the legends below to help configure the ATCA blade and RTM you require, and consequently, generate Order Numbers you can use to place your next order with Kontron sales.

Legend Ordering Code:

Examples:

AT8060-00T-0G-0x0GF-0

AT8060-2DT-64G-2x32GF-F



^{*}Additional memory configurations available upon customer request

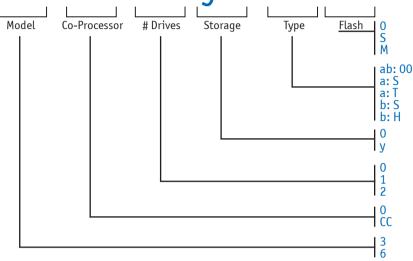
Configure your AT8060 Rear Transition Module (RTM)

Legend Ordering Code:

Examples:

RTM8063-0-0-0G-000 RTM8064-CC-2-64G-SHS

RTM806x - CC - n -yG-ab c



No Flash SLC Flash technology MLC Flash technology

No Drive SAS SATA SSD HDD

No Storage Insert Desired Gbytes Density

No Drive 1 Drive 2 Drives

No Co-Processor Intel Cave Creek Co-Processor

3Gbps SAS controller 6Gbps SAS controller

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