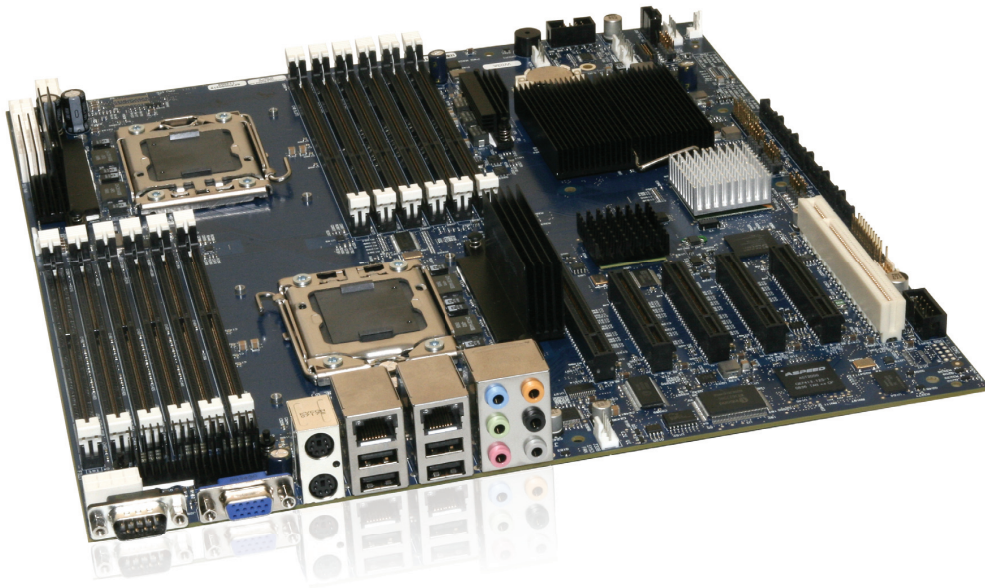# » KTC5520-EATX «

RoHS compliant
2002/95/EC

Embedded Server Board

Two Feature-rich processor Options:
- » Dual intel® Xeon® Six-Core processor (32nm) 5600 Series (New!; Drop-in Compatible)
- » Dual intel® Xeon® Quad-Core processor (45nm) 5500 Series

- » Cost-Effective and Long-Life Server-Class Embedded Motherboard
- » New intel Microarchitecture processor/chipset
- » KVM/VM over ip and remote Management; ipMi v2.0
- » Dual Gigabit Ethernet connectivity
- » Up to 96 GB DDr3 registered ECC SDrAM
- » Optimized for Virtualization
- » New hardware security (5600 Series):

intel® Advanced Encryption Standard - New instructions (intel® AES-Ni)

Technical Information

Supported Processors	Designed to support Single or Dual Intel® Xeon® Processors of the following two CPU options: » Intel® Xeon® Six-Core Processor 5600 Series; » Intel® Xeon® Quad-Core Processor 5500 Series up to 130W Integrated DDR3 Memory Controller
Chipset	Intel® 5520 I/O Hub (36D) and I/O Controller Hub (ICH10R) 6.4 GT/s CSI Link; PCI Express 2.0
Ethernet Controller	Intel® 82576EB Dual 1000BASE-T; supports virtualization
Memory	12 (twelve) DIMM sockets; 2 DIMMs per channel / 3 channels per CPU; up to 96 GB DDR3 Registered ECC SDRAM 8GB RAM per DIMM
BIOS	BIOS based on AMIBIOS 8
I/O features	Two 10/100/1000 Mbps Ethernet (Intel 82576EB) 6 SATA-II ports (Up to 3Gb/s); 1X Serial Port Integrated VGA (BMC) output to the rear panel HD 7.1 Channel Audio 4 USB 2.0 ports through four Rear I/O connector
Expansion features	1 PCIe 2.0 x8 using (x16) slot 3 PCIe 2.0 x8 1 PCIe x4 using x8 slot 1 PCI 32/33 MHz 2 USB headers (one is flash drive compatible) providing 2 USB ports each 1 TPM 1.2 header
Keyboard/Mouse	PS/2 keyboard and mouse Mini DIN connector on the rear panel
Graphic	Standard DB15 connector Maximum Display Resolution 1600x1200@60Hz Aspeed AST2050
Battery	On board Lithium battery for the CMOS memory/RTC backup
Audio	Implements Audio input/output sextuplet stack earphone jack on the rear panel. The connections are Line, mic, front, back, side, low-center, SPDIF out/in
Management Features	IP MI v2.0 Extensive sensors monitoring and event generation on thresholds Remote management using web management interface Built-in KVM/VM over IP (BMC) IP MI Over LAN/ Serial over LAN (IOL/SOL)
Form Factor	Server System Infrastructure (SSI) EBB Form factor
Dimensions	EATX (extended ATX) 12 inches (304.8 mm) x 13 inches (330.2 mm)
Environmental	Designed to meet shock and vibration requirements of ETSI EN 300 019.
Power	Max consumption : 310W with: Dual Intel® Xeon® Processor E5540 (80W), 48GB DDR3 memory, SATA HDD Max consumption : 435W with: Dual Intel® Xeon® Processor W5580 (130W), 48GB DDR3 memory, SATA HDD Max consumption : 270W with: Dual Intel® Xeon® Processor L5518 (60W), 48GB DDR3 memory, SATA HDD
Thermal	0°C -50°C* with sufficient airflow *Temperature might be higher depending on the chassis. Validation is required.
Reliability	MTBF: >140 000 hours @ 35°C/95°F (Telcordia SR-332, issue 2);
Software support	Windows Server 2008 and Red Hat Enterprise Linux version 5.4 or later (64 bits)
Compliance	PCIe 2.0 specification; 6 out of 6 to the RoHS/ WEEE European Directives, China RoHS requirements
Target Certifications	Designed to meet UL 60950-1 safety certification, EN55022 Class A, ETS-300-019 compliance, EN-300-386, IEC 60950, CSA; C22.2/60950 (Canada), EN 60950 (EU), EN 55024 (EU), EMC Directive 89/336/EEC (EU), CE, NEBS Level 3 (designed for), FCC B

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