

KTQM67/mITX

KTQM67/MTX EMBEDDED & LONGTERM AVAILABLE MINI ITX BOARD WITH INTEL® QM67 CHIPSET SPECIFICATIONS

- ▶ 2nd Generation Intel® i7-, i5-, i3 2Core and 4Core CPUs & Intel® QM67 Chipset
- ▶ Long term available embedded Mini ITX-Motherboard (up to 7 years after release)
- ▶ High graphics performance incl. 2 x Display Port, LVDS & DVI
- ▶ 6 x SATA (incl. 2 x SATA III), 14 x USB 2.0, 3 x Intel® GB LAN incl. Intel® AMT 7.0 support
- ▶ mSATA interface highspeed compact SSD storage
- ▶ ATX and single 12V power supply
- ▶ Gen 2.0 PCIe x16 & PCIe x1
- ▶ Unique multipurpose KT Feature Connector

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KTQM67/mITX embedded Mini ITX board offers latest Intel® i7-, i5-, i3 2Core and 4Core CPU technology and longterm availability

Based on the Mobile Intel® QM67 chipset, the Kontron KTQM67/mITX embedded motherboard with long-term availability offer an ideal performance-per-watt ratio and the very latest interface technology, like gen 2.0 PCI-Express x16, without neglecting embedded designers' needs. They still carry, for example, 6 x SATA (incl. 2 x SATA III) interfaces alongside the 14 USB 2.0 interfaces. The state of the art graphics performance is supported by 2 x Display Port, LVDS/eDP & DVI interfaces. An unique multipurpose KT Feature Connector supports up to 160 GPIO's. As always the KT embedded motherboards offer more PCB layers than conventional motherboards designed for the consumer market, in order to achieve excellent signal qualities and optimize electromagnetic compatibility. The on board mSATA interface allows to use space-saving highspeed compact SSD storage devices.

Kontron's newest embedded Mini-ITX-board also supports Intel Active Management Technology (Intel AMT 7.0) for remote management and easy maintenance resulting in higher system availability and lower total costs.

FEATURES	
Form Factor	Mini-ITX
Dimensions (H x W x D)	6.7" x 6.7" (17,0 cm x 17,0 cm)
CPU	Supports: Intel® i7-, i5-, i3 2 Core and 4 Core CPUs; Intel® Celeron® Processor B810 Intel Celeron Processor B810, 1.60GHz, dual Core, 35W Intel Core i7-2710QE Processor, 2.10GHz, quad Core, 45W Intel Core i3-2330E Processor, 2.20GHz, dual Core, 35W Intel Core i5-2510E Processor, 2.50GHz, dual Core, 35W
Chipset	Intel® QM67
Main Memory	Up to 16 GB DDR3 (max. 2x 8 GB)
Front Side Bus	5 GT/s point-to-point DMI 2.0 interface to PCH Four Lanes in each direction
Graphics Controller	Intel® HD Graphics 3000 integrated
Graphics	2 x Display port 1x DVI-I 1x LVDS / Embedded DP, HDMI via Adapter (1 x PCIe x 16 PCI slot)
Ethernet Controller	1x Intel® Lewisville 82579LM 2x Intel® Hartwell 82574L
Ethernet	3 x Intel® GB LAN (1x AMT 7.0 support)
Hard Disk	6 x SATA (4x SATA150/300 and 2x SATA600) w. RAID 0,1,5,10 support mSATA for SSD Storage
Parallel Port	1x LPT Parallel port in FFC connector
Flash Onboard	n/a
PCI	n/a
PCI Express / PCI support	1x PCIe x 16 1 PCIe x 1
Mini-PCI	2 x mini PCI-Express
USB	14 x USB 2.0
IEEE 1394 Firewire	2x IEEE1394a (Pin header)
Serial	4x RS232
Rear I/O	2x Dual USB + Displayport 1x Dual USB + Ethernet 1x Dual Ethernet 1x DVI Audio 3x
Audio Controller	HD 7.1 Mic x2 CDROM in and SPDIF
Keyboard	Internal PS2 Mouse/Keyboard connector
Special Features	DAC up to 160 GPIO TPM KT embedded feature port with ADC
BIOS	AMI
Power Management	ACPI 3.0
Operation Temperature	0°C - 60°C (32°F - 140°F)
Operating System	WE7 32/64bit Linux VxWorks, WindRiver Linux
Compliance	EN 61000-4-2:2000 ESD Immunity EN55022:1998 class B Generic Emission Standard IEC 60950-1: 2005, 2nd Edition UL 60950-1 CSA C22.2 No. 60950-1

DOWNLOADS

DATASHEETS
Datasheet KTQM67/mITX Family [datasheet_ktqm67-motherboard-family.pdf, 0.97 mb, Aug 31, 2017]
MANUALS
KTQM67 User Guide Rev. N September 13, 2017 [ktqm67-users-guide.pdf, 6.05 mb, Sep 19, 2017]
BIOS
KTQM67 BIOS v14 Update package for more safe flashing. Included MasterBIOS Tool. [ktqm6714.zip, 5.03 mb, Nov 27, 2013]
KTD-N0844 KTQM67-77 KTHM65-76 BIOS Revision Release Note [ktd-n0844-f-ktqm67-77-kthm65-76-bios-revision-release-note.pdf, 0.02 mb, Jun 27, 2014]
KTQM67 BIOS v15 [ktqm6715.zip, 5.07 mb, Jan 10, 2014]
BF (Burn Flash). EXE latest version bf.exe used to upgrade/modify BIOS on MB's and SBC's. Latest version v7.73 dated 2014-08-13. It's recommended to always use the latest version. [bf_v7.73.zip, 0.76 mb, Sep 26, 2014]
CHIPSET DRIVERS
KTQM67-KTQ67 AMT KT16-06-2011 [ktqm67-amt-kt16-06-2011.zip, 10.19 mb, Sep 19, 2017]
KTQM67-KTQ67 Chipset KT23-11-2011 [chipset-v9.2.0.1030.zip, 2.48 mb, Sep 19, 2017]
BOARD SUPPORT PACKAGES
KTQM67/KTQ67 WE57 BSP 64b 2011-08-23 [ktqm67-wes7-bsp-64b-2011-08-23.zip, 39.74 mb, Nov 27, 2013]
KTQM67/KTQ67 WE57 BSP 32b 2011-08-24 [ktqm67-wes7-bsp-32b-2011-08-24.zip, 34.32 mb, Nov 27, 2013]
KTQM67 Linux BSP r01.00 [ktqm67_linux_bsp_r01.00.zip, 651.65 mb, Nov 27, 2013]
KTQM67 Linux BSP r01.00 Release note [kontron_linux_bsp_ktqm67_releasenotes_r01.00.pdf, 0.22 mb, Nov 27, 2013]
KTQM67 VxWorks 6.8 BSP R01.00 [ktqm67-vxx68-bsp-r01.00.zip, 5.53 mb, Nov 27, 2013]
KTQM67 WindRiver Linux BSP Release Notes R01.00 [windriver_linux_bsp_ktqm67_releasenotes_r01.00.pdf, 0.07 mb, Nov 27, 2013]
KTQM67 WindRiver Linux BSP R01.00 [ktqm67-windriver-linux-bsp-r01.00.zip, 426.89 mb, Nov 27, 2013]
KTQM67 WindRiver Linux InstallationCD R01.00 [ktqm67-windriver-linux-installationcd-r01.00.zip, 516.82 mb, Nov 27, 2013]
KTQM67 WE57 BSP 32B R01.00 release notes [ktqm67-wes7-bsp-32b-r01.00_release_notes.pdf, 0.04 mb, Nov 27, 2013]
KTQM67 WE57 BSP 32b R01.00 [ktqm67-wes7-bsp-32b-r01.00.zip, 80.27 mb, Nov 27, 2013]
KTQM67 WE57 BSP 32b R01.00 Image [ktqm67-wes7-bsp-32b-r01.00-image.zip, 724.27 mb, Nov 27, 2013]

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VARIANTS	
KTQM67/mITX 810410-4500	 KTQM67/mITX embedded & longterm available Mini ITX board with Intel® QM67 chipset more
Intel Celeron B810 Processor 1044-7732	 Intel Celeron B810 Processor, 1.60GHz, dual Core, 2MB Cache, 35W, PGA98B, Embedded
Intel Core i3-2330E Processor 1044-7726	 Intel Core i3-2330E Processor, 2.20GHz, dual Core, 3MB Cache, 35W, FCPGA98B, Embedded
Intel Core i5-2510E Processor 1044-7635	 Intel Core i5-2510E Processor, 2.50GHz, dual Core, 3MB Cache, 35W, FCPGA98B, Embedded
Intel Core i7-2710QE Processor 1044-7623	 Intel Core i7-2710QE Processor, 2.10GHz, quad Core, 6MB Cache, 45W, FCPGA98B, Embedded

ACCESSORIES	▼
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ABOUT KONTRON

Kontron is a global leader in embedded computing technology (ECT). As a part of technology group S&T, Kontron offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

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