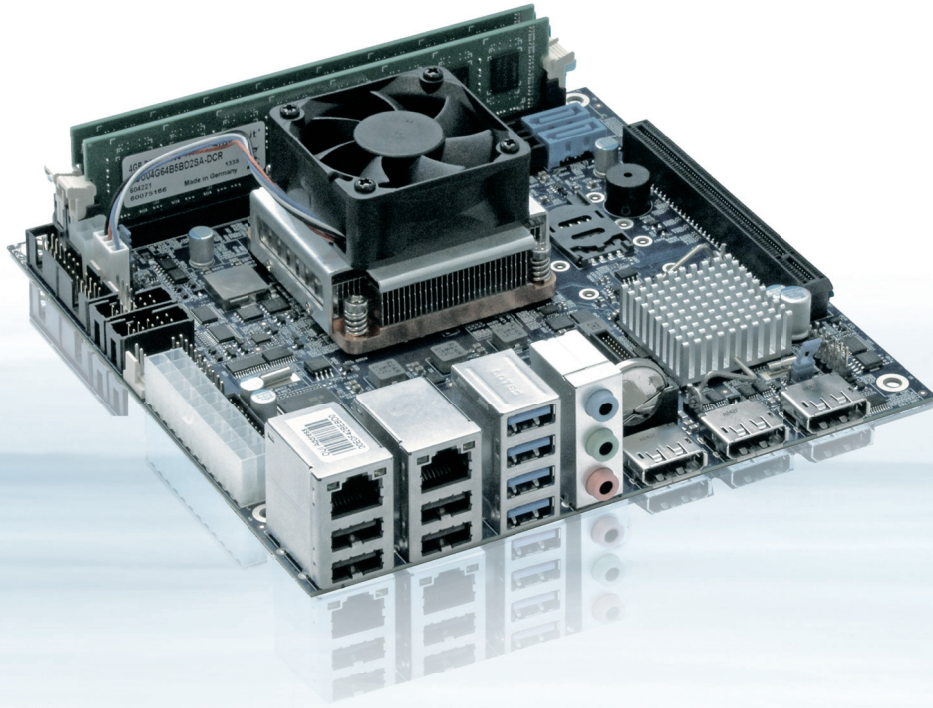


KTQM87/mITX



EMBEDDED mITX MOBILE MOTHERBOARD WITH 4th GENERATION Intel® 22NM DUAL AND QUAD CORE I7/I5/I3

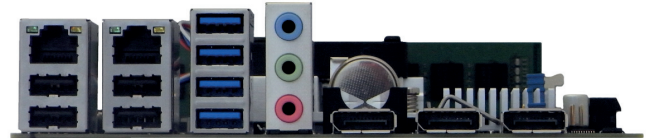
- ▶ long term available Embedded mITX Desktop motherboard
- ▶ high performance CPU, graphics, and media performance supporting 3 independent displays pipes
- ▶ graphics APIs DirectX 11.1, OpenGL 4.x, OpenCL 1.2
- ▶ 3x display port for flexible, high resolution display drive
- ▶ LVDS interface

POSSIBILITIES START HERE



KTQM87/mITX

- ▶ 2x DDR3L/DDR3 DIMM sockets supporting up to 16 GByte DDR3 Memory
- ▶ HD Audio 7.1
- ▶ 4x USB 3.0/2.0 & 6x USB 2.0 ports, 2x SATA 3.0 & 2x SATA 2.0 ports, 2x Ethernet Gigabit-LAN one controller with AMT 9.0
- ▶ 2x mSATA/ mPCIe socket supporting mPCIe cards and SATA 3.0 SSD storage cards and USB 2.0
- ▶ 1x SIM card slot
- ▶ High-speed I/O PCIe Gen 2.0 & 3.0 support
- ▶ Embedded controller (GPIO, ADC, DAC, FAN Control, Temperature monitoring)
- ▶ Intel® AMT 9.0 support
- ▶ Intel® AES security features
- ▶ Intel® Turbo Boost Technology (w/Dynamic Frequency)
- ▶ Intel® Hyper-Threading Technology
- ▶ Intel® AVX 2.0
- ▶ **Digital Signage:** High graphics performance & multi display support
- ▶ **Gaming/POS/POI:** High graphics and high CPU performance
- ▶ **Medical:** High Graphics performance & longevity
- ▶ **Industrial Automation:** Wide range of I/Os & longevity
- ▶ **Future-oriented Devices** Due to Display Port and mSATA/compact SSD support



▶ TECHNICAL INFORMATION

FEATURES	KTQM87/mITX Mobile Motherboard
FORM FACTOR	mITX: 17.0 x 17.0 cm (6.7" x 6.7")
CPU	Intel® Core™ i7/i5/i3 2C/4C, CPU clock up to 3.4 GHz, FCBGA1364
GRAPHICS	Integrated into CPU with GT2 or GT3 depending on CPU type
GRAPHIC INTERFACE	3x Display Port revision 1.2 in Rear IO
MEMORY	Up to 8 GByte DDR3L/DDR3, 2x (max. 16 GByte), PC3-10600/PC3-12800 support, ECC support
CHIPSET	Intel® Embedded QM87
FRONT SIDE BUS	DMI 2.0 support; Four lanes in each direction; Up to 20 Gb/s each direction, full duplex. DMI interface to PCH is supported
SATA	4x SATA interfaces SATA 1.50/3/6Gbit/s, 2x SATA interfaces SATA 1.50/3, mSATA socket, RAID 0/1/5/10 support
USB	4x USB 3.0/2.0 & 8x USB 2.0 (4x USB3.0/USB2.0 & 4x USB2.0 in Rear IO, USB 2.0 2x Internal Header, USB 2.0 2x PCIe sockets)
AUDIO	HD Audio codec VT17085 supporting 7.1 channel surround sound
ETHERNET	2x Intel Gigabit-LAN, one LAN controller supporting Intel® AMT 9.0
AVAILABLE I/Os	PCIe x16 socket with Gen3 and Gen2 support, 2x Mini-PCIe/ mSATA 1.50/3/6Gbit/s, 2x COM (RS232) (1xCCTALK)
REAR I/O	Audio stacked 1x3 mini Jack tower, 8x USB, 3x Display port, 2x RJ45 LAN
SPECIAL FEATURE	AMT 9.0, TPM 1.2, Intel® AES security, Kontron embedded feature connector with ADC, DAC up to 160 GPIO
OS SUPPORT	Win7, Win8, WES7, Linux, VxWorks
TEMPERATURE	Operating 0° C to 60° C (32° F to 140° F)
ADDITIONAL	Up to 7 years availability

▶ CORPORATE OFFICES

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