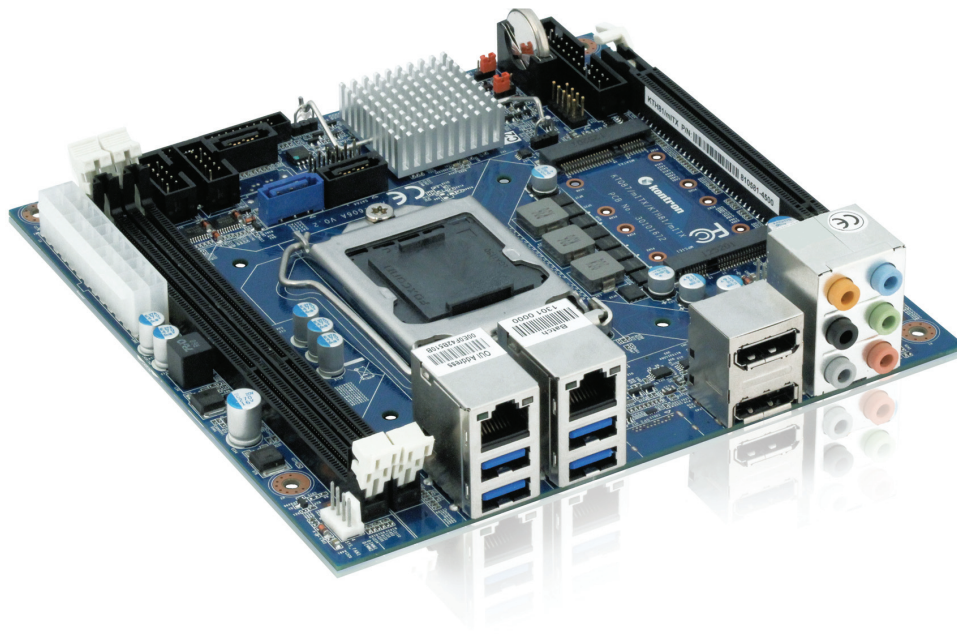


» KTH81/mITX «



Embedded Mini-ITX Motherboard with Intel® H81 Chipset and 4th Generation Intel® i7/i5/i3 Dual and Quad Core CPUs

- » 4th Generation Intel® 22nm Dual and Quad Core i7, i5, i3, Pentium & Celeron® CPUs with Intel® H81 Lynx Point PCH
- » Long term available Embedded mITX motherboard
- » High performance CPU, graphics, and media performance supporting 2 independent displays pipes
- » Graphics APIs DirectX 11.1, OpenGL 4.x, OpenCL 1.2
- » 2x Display Port for flexible, high resolution display drive
- » 2x DDR3L/DDR3 DIMM sockets supporting up to 16GB DDR3 Memory

KTH81/mITX

- » **Gaming/POS/POI:** High graphics and CPU performance, multi display support
- » **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	KTH81 mITX Desktop Motherboards
Form Factor	170 x 170 mm (6.7" x 6.7")
CPU	Intel® Core i7/i5/i3 2C/4C CPU clock up to 3.1 GHz
Graphics	Integrated into CPU with GT1 or GT2 depending on CPU type
Graphic Interface	2x Display Port revision 1.2 in Rear IO
Memory	2x up to 8 GB DDR3L/DDR3 (max. 16GB), PC3-10600/PC3-12800 support
Chipset	Intel® Embedded H81
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	1x 6Gb/s SATA + 2x 3Gb/s SATA
USB	2x USB 3.0/2.0 + 2x USB 2.0 ports in Rear-IO, 6x USB 2.0 internal
Audio	HD Audio codec VT1708S supporting 7.1 channel surround sound
Ethernet	2x Intel Gigabit-LAN
Available I/Os	PCIe x16 socket with Gen3 and Gen2 support, 1x Mini-PCIe, 1x mSATA 1.50/3/6Gbit/s, 2x COM (RS232)
Rear I/O	Audio stacked 2x3 mini Jack tower, 2x USB 3.0/2.0 + 2x USB 2.0 ports, 2x Display port, 2x RJ45 LAN
Special Feature	TPM 1.2, DAC up to 160 GPIO
OS Support	Win7, Win8 WES8, WES7, Linux, VxWorks
Temperature	Operating 0°C to 50°C (32°F to 122°F)
Additional	Up to 7 years availability

Ordering Information

Article	Part No.	Description
KTH81/mITX	810581-4500	Mini-ITX board based on Intel® Shark Bay platform
CPUs		
CPU, Core I5	1054-9757	CPU, Core I5-4570S GT2 2.9G 4C 6M LGA1150
CPU, Core I7	1054-9752	CPU, Core I7-4770S GT2 3.1G 4C 8M LGA1150
Further CPUs will be defined in near future.		
Recommended Memory Modules		
DDR3 DIMM 1GB	1054-3706	DDR3, 1GB, 240P, 1600MHZ, PC3-12800 DIMM
DDR3 DIMM 2GB	1054-3707	DDR3, 2GB, 240P, 1600MHZ, PC3-12800 DIMM
DDR3 DIMM 4GB	1054-3708	DDR3, 4GB, 240P, 1600MHZ, PC3-12800 DIMM
DDR3 DIMM 8GB	1052-5601	DDR3, 8GB, 240P, 1600MHZ, PC3-12800 DIMM

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