

Datasheet

mITX-SKL-H

Kontron

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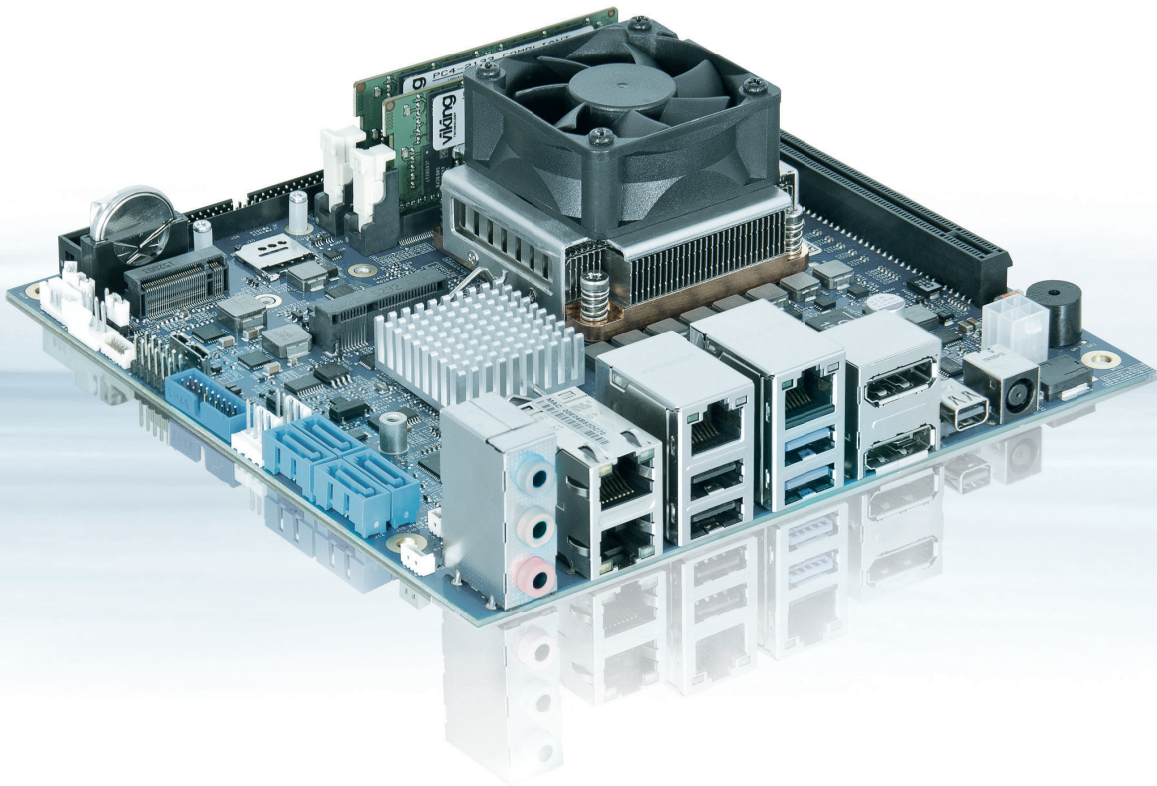
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mITX-SKL-H



EMBEDDED mITX MOBILE MOTHERBOARD WITH 6th GENERATION Intel® 14NM Quad Core™ I5/I7, Xeon® E3, Celeron® CPUS

- ▶ long term available Embedded mITX mobile class motherboard
- ▶ Intel® HD graphics with 3 independent ports, LVDS option
- ▶ SO-DIMM Socket DDR4-2133 Memory (up to 32 GByte)
- ▶ TPM 2.0 and hardware security device to protect applications and licensing
- ▶ up to 4 GBE RJ45 Ethernet LAN ports

POSSIBILITIES START HERE



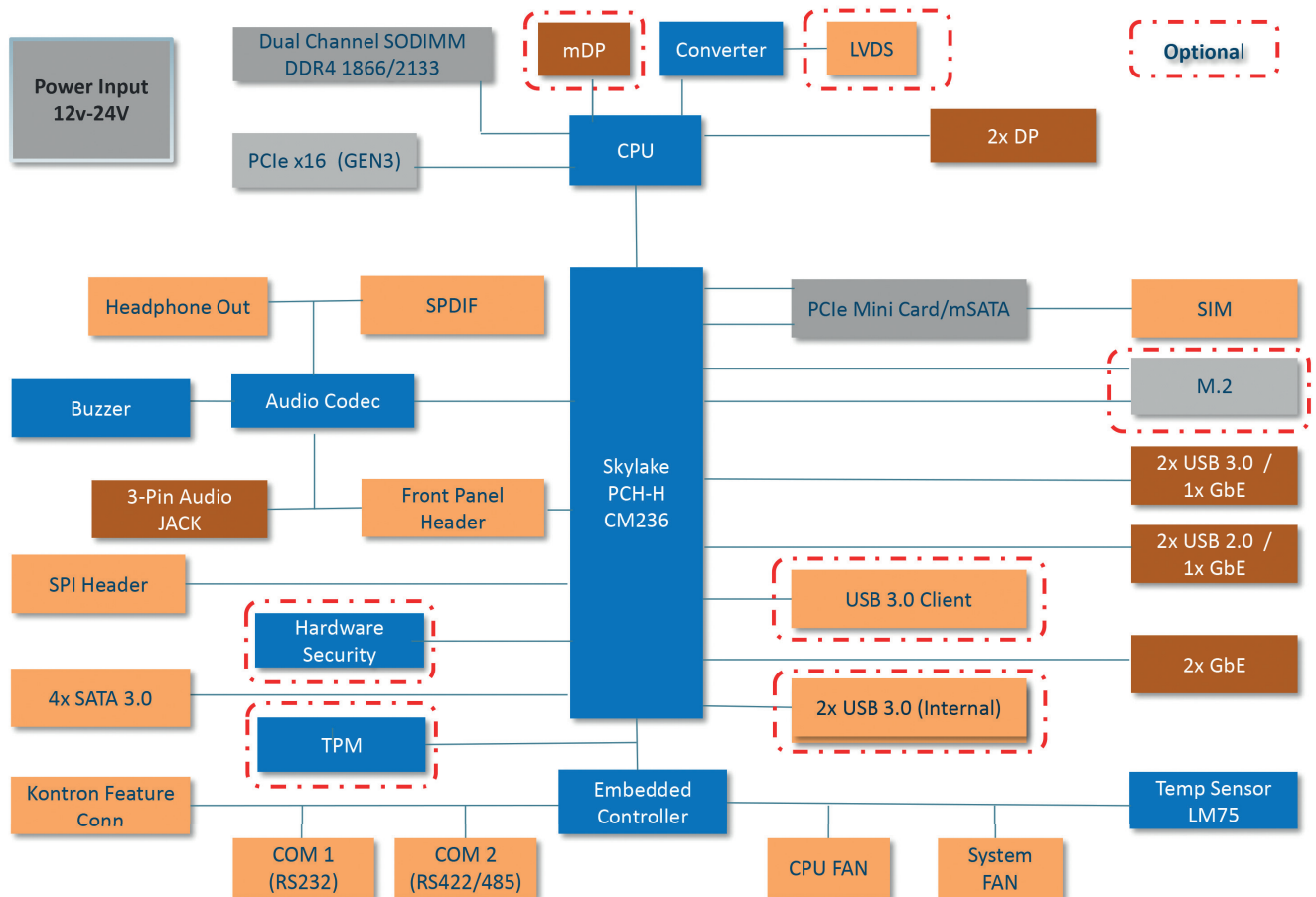
mITX-SKL-H

TYPICAL APPLICATIONS

- ▶ POS/POI: Higher Graphics and CPU core performance, Low power, multi display support
- ▶ Medical/Connectivity: Higher Graphics and CPU core performance, longevity
- ▶ Industrial Automation: Wide range of I/Os, compact size, longevity
- ▶ Digital signage: Multi display support, low power, wide range of I/Os
- ▶ Future-oriented Devices: Display Port and LVDS, low power, compact size

The mITX-SKL-S-C236 is part of the Security Solution Product Line. The motherboard is prepared for Application Protection, License Creation, Delivery, Management and Tracking, Implementation of license models as well as the assignment of privileges and access levels.

▶ BLOCK DIAGRAM mITX-SKL-H



TECHNICAL INFORMATION

PROCESSOR	Intel® Xeon® E3, Core™ i7/i5, Celeron® G3900E
MEMORY	2x DDR4 SODIMM 2133 MHz (up to 32 GByte)
GRAPHICS INTERFACE	3x Independent Displays (3x DP)
SPECIAL	TPM2.0, hardware security device, M.2 (2280, Socket 3, M-Key), SPI Fast Interface, SIM
SATA PORTS	4x SATA Gen 3.0
MPCIE / MSATA SLOT	1x Mini-PCIe with USB 2.0/PCI/SATA and external to SIM
SERIAL PORTS	1xRS232; 1xRS485 Half duplex /2 pairs RS422
LAN PORTS	4x Ethernet on front IO Gigabit-LAN (10/100/1000 MBit), 2x optional
USB PORTS	2x USB 3.0 (Internal)+ 1x USB 3.0 (Client) + 2x USB 3.0 (Rear)+ 2x USB 2.0 (Rear) + 2x USB 2.0 (Front) + 1x USB 2.0 (mPCIe)
AUDIO	HD Analog audio interface (Line-In, Line-Out, Mic-In, SPDIF)
PCIe SLOTS	1x PCIe x16 (Gen 3)
TPM	TPM2.0, Hardware Security Device
POWER SUPPLY	Single supply 12/24 V DC, Internal and external connector
MTBF	tbd
SAFETY	IEC 60950-1: 2005, 2nd Edition UL 60950-1, CSA C22.2 No. 60950-1
COOLING SOLUTIONS	Passive and active cooling solutions
OPERATING TEMPERATURE	0 °C to 60 °C
REGULATORY	Comply with Emission: EN55022
DIMENSIONS	Thin Mini-ITX, 170 x 170 mm
OPERATING SYSTEMS	Win7, Win8.1, Win10, WES7, Linux
BIOS	AMI Aptio® V UEFI

ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
MITX-SKL-H CON XEON® E3-1505M (STANDARD)	1060-2727	Connectivity Version Xeon® E3-1505M 2.8 GHz 45 W GT2, CM236 PCH, vPro, ECC; DP, w.cooler
MITX-SKL-H CON i7-6820EQ (STANDARD)	1060-2728	Connectivity Version Core™ i7-6820EQ 2.8 GHz 45 W GT2, CM236 PCH, non-ECC; DP, w.cooler
MITX-SKL-H CON i5-6440EQ (STANDARD)	1060-5140	Connectivity Version Core™ i5-6440EQ 2.7 GHz 45 W GT2, CM236 PCH, non-ECC; DP, w.cooler
MITX-SKL-H CON G3900E (STANDARD)	1060-5144	Connectivity Version Celeron® G3900E 2.4 GHz 35 W GT1, CM236 PCH, non-ECC/ECC; DP, w.cooler
MITX-SKL-H i5-6440EQ (OPTIONAL)	1060-2725	IA Version Core™ i5-6440EQ 2.7 GHz 45 W GT2, CM236 PCH, non-ECC; DP, LVDS, w.cooler
MITX-SKL-H G3900E (OPTIONAL)	1060-2726	IA Version Celeron® G3900E 2.4 GHz 35 W GT1, CM236 PCH, non-ECC/ECC; DP, LVDS, w.cooler
MITX-SKL-H XEON E3-1505M (OPTIONAL)	1060-5145	IA Version Xeon® E3-1505M 2.8 GHz 45 W GT2, CM236 PCH, vPro, ECC; DP, LVDS, w.cooler
MITX-SKL-H i7-6820EQ (OPTIONAL)	1060-5146	IA Version Core™ i7-6820EQ 2.8 GHz 45 W GT2, CM236 PCH, non-ECC; DP, LVDS, w.cooler

RECOMMENDED MEMORY MODULES

STANDARD GRADE 0° C TO +60° C	1060-2753	DDR4-2133 non-ECC SODIMM 4 GByte
STANDARD GRADE 0° C TO +60° C	1060-2760	DDR4-2133 non-ECC SODIMM 8 GByte
STANDARD GRADE 0° C TO +60° C	1060-2761	DDR4-2133 non-ECC SODIMM 16 GByte
STANDARD GRADE 0° C TO +60° C	1060-2762	DDR4-2133 ECC SODIMM 4 GByte
STANDARD GRADE 0° C TO +60° C	1060-2763	DDR4-2133 ECC SODIMM 8 GByte
STANDARD GRADE 0° C TO +60° C	1060-2764	DDR4-2133 ECC SODIMM 16 GByte

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