

# EMBEDDED mITX MOBILE MOTHERBOARD WITH 6th GENERATION Intel<sup>®</sup> 14NM Quad Core<sup>™</sup> 15/17, Xeon<sup>®</sup> E3, Celeron<sup>®</sup> CPUS

- long term available Embedded mITX mobile class motherboard
- ▶ Intel<sup>®</sup> 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



## mITX-SKL-H TYPICAL APPLICATIONS

BLOCK DIAGRAM mITX-SKL-H

Blue: Soldered Devices
Grey: Sockets for Modules

- 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-H-CM236 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.

#### Dual Channel SODIMM LVDS Converter DDR4 1866/2133 Power Input 12v-24V CPU PCIe x16 (GEN3) SPDIF Headphone Out PCIe Mini Card/mSATA SIM M.2 Audio Codec Buzzer 2x USB 3.0 Skylake 1x GbE Front Panel PCH-H 3-Pin Audio Header IACK 2x USB 2.0 / 1x GbE SPI Header Hardware 2x GbE Security 4x SATA 3.0 2x USB 3.0 (Internal) TPM Embedded Temp Sensor Kontron Feature LM75 Conn COM 1 COM 2 System CPU FAN (R\$232) (RS422/485) EAN Color code Brown: Rear IO Light Brown: Internal Connector

### ► 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 (2x DP; 1x LVDS)
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-PCle with USB 2.0/PCI/SATA and external to SIM
SERIAL PORTS	1x RS232; 1x RS485 Half duplex / 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 ( <b>Rear I/O</b> ) + 2x USB 2.0 ( <b>Rear I/O</b> ) + 2x USB 2.0 ( <b>Front Header</b> ) + 1x USB 2.0 (mPCle)
AUDIO	HD Analog audio interface (Line-In, Line-Out, Mic-In, SPDIF)
PCIe SLOTS	1x PCIe x16 (Gen 3)
ТРМ	TPM2.0, Hardware Security Device
POWER SUPPLY	12/24 V
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
SUPPORTED MODULES	mITX-SKL-H 81067X-45XX

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