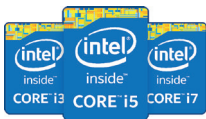
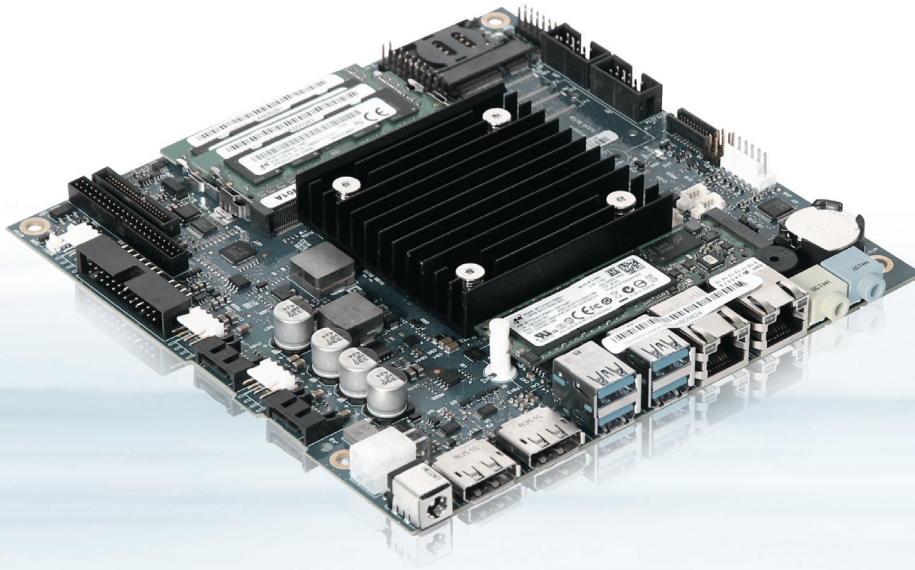


mITX-BDW-U



LOW POWER, IOT READY EMBEDDED mITX MOTHERBOARD WITH 5TH GENERATION Intel® 14NM CORE I7, I5 & I3 PROCESSORS

- ▶ embedded mITX motherboard with up to 7 years availability
- ▶ thin profile, low power platform with 15W CPUs in 23mm envelope
- ▶ supporting 3 independent displays pipes via 2x DisplayPort and LVDS
- ▶ operating temperature range from 0°C to +60°C
- ▶ powered by 19V notebook-style power adapter or internal 12V connector

POSSIBILITIES START HERE



kontron

▶ TECHNICAL INFORMATION

FEATURES	5th Generation Intel® Core i7, i5 & i3 Motherboards
FORM FACTOR	mITX – low profile: 170 mm x 170 mm x 23 mm (6.7" x 6.7" x 0.9")
CPU	Intel® Core i7/i5/i3 2C CPU clock up to 3.2 GHz
GRAPHICS	Integrated into CPU with GT2 or GT3 depending on CPU type
GRAPHIC INTERFACE	2x Display Port revision 1.2 in Rear IO and LVDS 18bpp/24bpp internally
MEMORY	Up to 16 GB DDR3L (2x 8GB SO-DIMM modules), 1333 & 1600 MT/s support.
CHIPSET	Intel® Broadwell PCH-LP on multi-chip package BGA with CPU
SATA	3x SATA 6 Gb/s (one on M.2) w. RAID 0 & 1
USB	4x USB 3.0 in Rear I/O, 2x USB 2.0 on front panel & 1x on mPCIe socket.
AUDIO	HD Audio codec supporting 5.1 channel surround sound
ETHERNET	2x Intel Gigabit-LAN
AVAILABLE I/OS	1x Mini-PCIe with SIM card holder, 1x M.2 (2280), 2x COM (RS232)
REAR I/O	19V DC input, 2x Display port, 4x USB 3.0, 2x RJ45, Audio jack for line-in & headset.
SPECIAL FEATURE	Intel® AES security, Kontron embedded feature connector with ADC, DAC up to 160 GPIO
OS SUPPORT	Win7, Win8.1 & Linux
TEMPERATURE	Operating 0°C to 60°C (32°F - 140°F)
ADDITIONAL	Up to 7 years availability

▶ mITX-BDW-U

- ▶ **Digital Signage:** Low profile, low power & multi display support
- ▶ **Gaming/POS/POI:** High graphics and high CPU performance-to-power ratio
- ▶ **Industrial Automation:** Wide range of I/Os & longevity
- ▶ **Future-oriented Devices:** IoT support through eg. WWAN support. SATA and x2 PCIe SSD support in M.2 socket.



▶ ORDERING INFORMATION

ARTICLE	Part No.	Article
mITX-BDW-U I7 GT3	810610-4500	i7-5650U, 4M, up to 3.2 GHz
mITX-BDW-U I5 GT3	810611-4500	i5-5350U, 3M, up to 2.9 GHz
mITX-BDW-U I3 GT2	810612-4500	i3-5010U, 3M, up to 2.1 GHz

RECOMMENDED MEMORY MODULES

DDR3L SO-DIMM 2GB	1055-9939	DDR3L, 2GB, 204P, 1600MHz, PC3-12800, SO-DIMM G/W
DDR3L SO-DIMM 4GB	1055-9941	DDR3L, 4GB, 204P, 1600MHz, PC3-12800, SO-DIMM G/W
DDR3L SO-DIMM 8GB	1055-9942	DDR3L, 8GB, 204P, 1600MHz, PC3-12800, SO-DIMM G/W

Note: Motherboards come pre-assembled with heatsink. Fan included in packaging.

▶ CORPORATE OFFICES

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