

EPS-KBLHE

7th Gen Intel® Core™ i7/i5/i3 Fanless Rugged Embedded System



Specification

System Information	
Processor	Intel® Core™ i7-7820EQ Processor (8M Cache, up to 3.70 GHz) Intel® Core™ i5-7440EQ Processor (6M Cache, up to 3.60 GHz) Intel® Core™ i3-7100E Processor (3M Cache, 2.90 GHz)
Platform Controller Hub	Mobile Intel® QM175 Chipset
System Memory	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 16 GB
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
SBC	ECM-KBLH
Expansion	
M.2	1 x M.2 B-Key (PCIe/SATA/USB 2.0/3.0)
mPCIe	1 x mPCIe (PCIe/SATA/USB 2.0)
Storage	
M.2	1 x M.2(B-Key)
2.5" Drive Bay	2 x 2.5" Drive Bay
mSATA	1 x mSATA
Front I/O	
USB Port	2 x USB 2.0
Rear I/O	
USB Port	4 x USB 3.0
COM Port	1 x RS-232 1 x RS-232/422/485 (Jumper)
Audio	Mic-In, Line-Out
LAN Port	2 x RJ-45
Antenna	2 x Antenna Mounting
AC/DC Input	Lockable DC Jack

Display	
Graphic Chipset	Processor Graphics, Intel® HD Graphics 630
Resolution	2 x HDMI: Max. Resolution 4096x2304 @ 30Hz
Audio	
Audio Codec	Realtek ALC233 supports 2.1-CH
Ethernet	
LAN Chipset	1 x Intel® I210AT 1 x Intel® I219LM
Specification	10/100/1000 Base-Tx Gigabit Ethernet Compatible
Power Requirement	
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 1.0b and 2.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 12V/10A AC-DC 120W Adapter
Mechanical & Environment	
Operating Temp.	With extended temperature peripherals: -10°C ~ 50°C (14°F ~ 122°F) with air flow
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W*L*H)	240mm x 230mm x 72mm
Weight	4.5KG
Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 1hr/3 axis
Shock Test	With SSD: 50Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed
Mounting Kit	Wall Mount kit (Standard)
Software Support	
OS Information	Win 10, Linux
Certification	
Certification Information	CE, FCC Class B