

Computer on Modules for OEM/ODM

ONYX COM-SKHB6

COM Express Type 6 Basic Size with 6th Gen Intel® Core™ i-series Processor



Features

- Intel® Core™ i3/i5/i7 Processor with PCH QM170/CM236
- DDR4 SODIMM x 2, up to 32 GB, ECC Supports by SKU
- Gigabit Ethernet x 1
- 18/24-bit Dual Channel LVDS LCD or eDP, DDI x 2 (up to 3), VGA
- High Definition Audio Interface
- SATA 3 x 4
- USB 2.0 x 8, USB 3.2 Gen 2 x 4, GPIO 8-bit
- PCI-Express [x1] x 8, PCI-Express [x16] x 1
- COM Express Type 6 Basic Size 125mm x 95mm



Specifications

System

Form Factor	COM Express Basic Size
CPU	Onboard 6th Gen Intel® Core™ i-series Processor i7-6820EQ 4c/2.8 GHz i3-6100E 2c/2.7 GHz
CPU Frequency	Up to i7-6820EQ 3.50 GHz
Chipset	PCH QM170 or CM236 (by sku)
Memory Type	DDR4, SODIMM x 2, ECC Supports with CM236 sku only, up to 2133
Memory Capacity	32 GB
BIOS	AMI BIOS, Legacy Free BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Standard: +12V
Power Supply Type	AT / ATX Selection
Power Consumption	i7-6820EQ 2.8GHz, DDR4 16GB, 3.08A@12V (during full-loading mode)
Dimension (L x W)	4.92" x 3.75" (125 mm x 95 mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	10% ~ 90% relative humidity, non-condensing
MFTB (Hours)	80,000
Certification	CE / FCC Class A

Display

VGA / LCD Controller	Intel® HD Graphics P530 / 530
Video Output	VGA, LVDS or eDP, DDI x 2 (3rd DDI could be added if VGA no required)
LVDS Interface	—

I/O

Ethernet	Intel® I219, Gigabit Ethernet
Audio	HD Audio
USB Port	USB2.0 x 8, USB3.2 Gen 2 x 4
Serial Port	2-Wire UART (Tx/Rx) x 2
HDD Interface	SATA 3 x 4
Onboard Storage	—
Expansion Slot	PCIe[x16] x 1 PCIe[x1] x 8 I2C LPC SMBus
GPIO	GPIO 8-bit
TPM	Optional