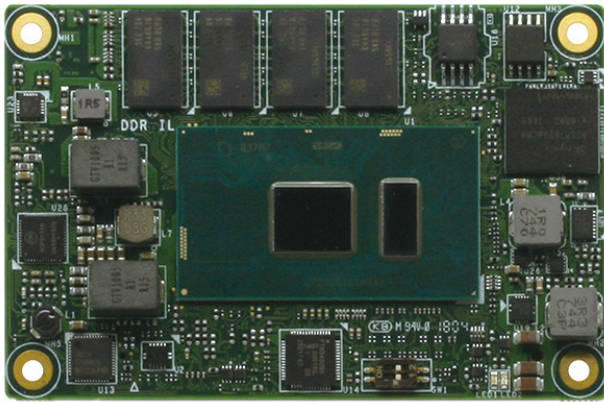


Computer on Modules for OEM/ODM

ONYX NanoCOM-KBU-A20

COM Express Type 10 with 7th Generation Intel® Core™ ULT Series Processor



Features

- 7th Generation Intel® Core™ U- Series SoC Processor
- Onboard 8GB DDR4 2133 Memory
- Onboard 64 GB eMMC Support
- Intel® I219LM Gigabit Ethernet x 1
- High Definition Audio Interface
- 18/24-bit Single-Channel LVDS LCDs (Option : eDP), DDI x 1
- SATA3 x 2
- USB 3.2 Gen 1 x 2, USB 2.0 x 8
- PCI-Express [x1] x 4C
- GPIO x 8, SMBus, I2C, LPC
- COM Express Type 10, Mini Size, 84 mm x 55 mm
- Supports Industrial Grade Temperature



Specifications

System

Form Factor	COM Express Mini size, Type 10
CPU	CPU Onboard 7th Generation Intel® Core™ U- Series SoC
CPU Frequency	Up to i7-7600U 2C / 2.8 GHz
Chipset	Onboard 7th Generation Intel® Core™ U-series SoC
Memory Type	Onboard Non-ECC DDR4-2133
Memory Capacity	8 GB DDR4
BIOS	AMI BIOS, Legacy Free
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Standard +12V
Power Supply Type	AT / ATX
Power Consumption	i7-7600U, Onboard 8GB DDR4, full loading 1.83A@12V during 100% loading burn in test
Dimension (L x W)	3.31" x 2.17" (84mm x 55mm)
Operating Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C) -40 °F ~ 185 °F (-40 °C ~ 85 °C) Option for NANOCOM-SKU series
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MFTB (Hours)	80,000
Certification	CE / FCC Class A

Display

VGA/LCD Controller	Intel® HD Graphics 620/610
Video Output	LVDS LCD (eDP Optional), DDI x 1
LVDS Interface	Support 18-bit and 24-bit single channel

I/O

Ethernet	Intel® I219-LM
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.2 Gen 1 x 2
Serial Port	2-Wire UART (TX/RX) x 2
HDD Interface	SATA3 x 2
Onboard Storage	eMMC Optional
Expansion Slot	PCIe [x1] x 4 (up to 4 devices) LPC SMBus I2C
GPIO	8-bit
TPM	fTPM Supported