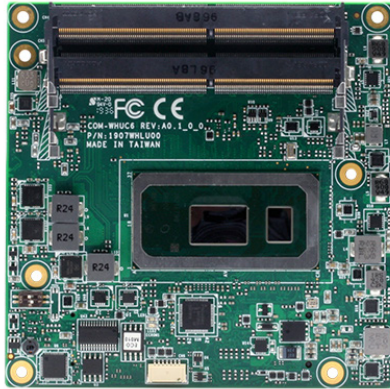


Computer on Modules for OEM/ODM

ONYX COM-WHUC6

COM Express Compact Type 6 with 8th Gen Intel® Core™ ULT SoC



Features

- 8th Generation Intel® Core™/Celeron™ ULT Processor
- DDR4 socket x 2, non-ECC Support
- Gigabit Ethernet x 1
- VGA, 18/24b 2ch LVDS LCDs or eDP, DDIx2 (DDI2 share with VGA)
- High Definition Audio Interface
- SATA3 x 2, eMMC onboard (up to 64GB)
- USB 3.2 Gen 2 x 4, USB2.0 x 8
- PCI-Express [x1] x 8 lanes available, 5 Devices max
- GPIO x8, SMBus, I2C, LPC
- COM Express Type 6, Compact size, 95mm x 95mm



Specifications

System

Form Factor	COM Express Compact size, 95mm x 95mm
CPU	8th Generation Intel® Core™ ULT Series Processor
CPU Frequency	—
Chipset	Onboard 8th Generation Intel® Core™ SoC
Memory Type	SO-DIMM DDR4 2400 Socket x2
Memory Capacity	Up to 64GB
BIOS	AMI BIOS, Legacy Free BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Standard: +12V
Power Supply Type	AT / ATX Mode
Power Consumption	12V, estimate 18W with i7-8655UE @ 100% loading
Dimension (L x W)	3.75" x 3.75" (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MFTB (Hours)	TBD
Certification	CE / FCC Class A

Display

VGA / LCD Controller	Intel® HD Graphics P530 / 530
Video Output	DDI0: LVDS, (eDP by BOM change) DDI1: Display Port DDI2: Default VGA, (DP by SW1&2 selected)
LVDS Interface	Support 18-bit and 24-bit dual channel

I/O

Ethernet	Intel® I219 GbE x 1
Audio	HD Audio x 1
USB Port	USB2.0 x 8, USB3.2 Gen 2 x 4
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA3 x 2 as default (up to 3)
Onboard Storage	eMMC x 1 (up to 64GB)
Expansion Slot	PCIe[x1] x 4 + PCIe[x4] x 1 (default), I2C, LPC, SMBus
GPIO	8-bit
TPM	TPM 2.0 Optional