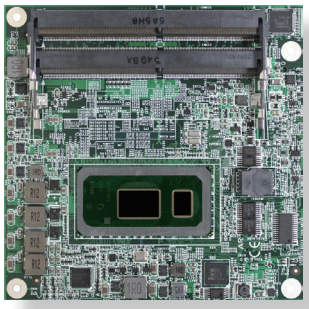
EmETXe-i91U0

8th Generation Intel® Core™ i7-8665UE/ i5-8365UE/ i3-8145UE/ Celeron 4305UE Processor COM Express® Compact Type 6 CPU Module



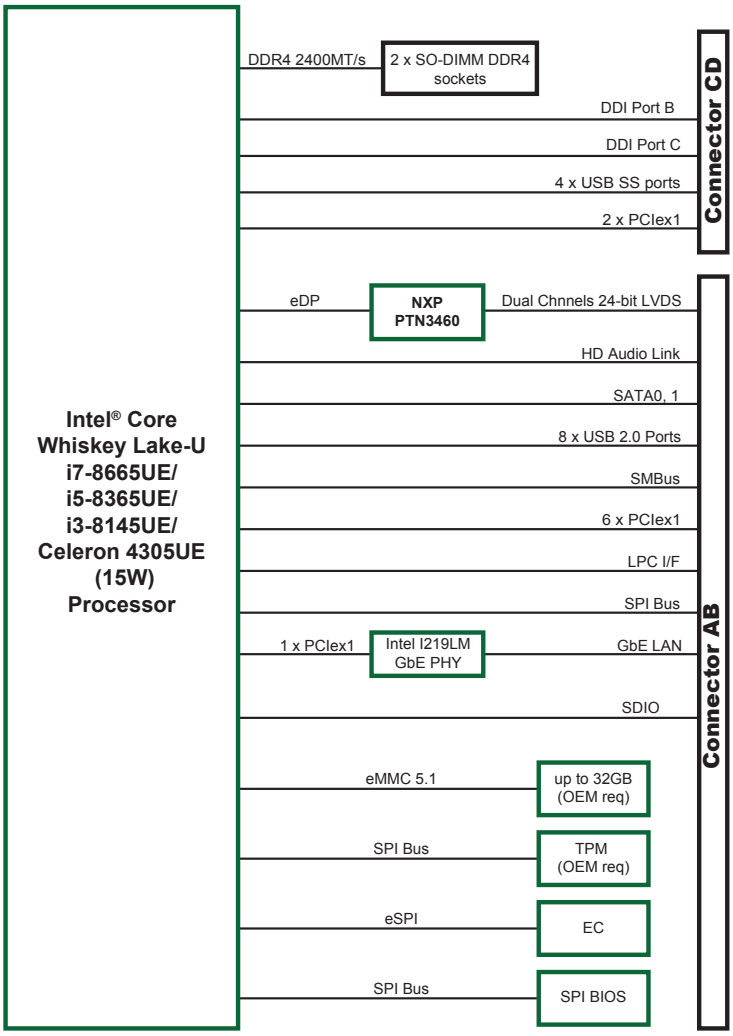
Features

- Soldered onboard 8th Generation Intel® Core™ i7/ i5/ i3/ Celeron processors
- Intel® I219LM PCIe GbE PHY
- Dual Channels 24-bit LVDS and 2 x DDI ports
- Support 3 independent displays
- 5V~20V Wide Range Voltage Input
- **Wide Range Operating Temp.: -40 ~ 85°C**

System	
CPU	Soldered onboard 8th Generation Intel® Core™ i7-8665UE 1.7GHz (Base)/ 4.4GHz (Turbo)/ i5-8365UE 1.6GHz (Base)/ 4.1GHz (Turbo)/ i3-8145UE 2.2GHz (Base)/ 3.9GHz (Turbo)/ Celeron 2.0GHz (Base)/ 2.0GHz (Turbo) processor
Memory	2 x DDR4 SO-DIMM sockets
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset
I/O	
USB Port	12 x USB ports: - 8 x USB 2.0 ports - 4 x USB SuperSpeed ports
Serial Port	2 x UART ports (RX/TX only)
Expansion Bus	8 x PCIex1 lanes, I2C Interface
Digital I/O	8-bit Digital Input/Output
Storage	2 x Serial ATA ports Soldered onboard eMMC 5.0 up to 32GB (OEM Request)
Ethernet Chipset	1 x Intel® i219LM PCIe GbE PHY
Audio	HD audio link
TPM	Supports TPM (OEM Request)
Display	
Graphic Chipset	Intergrated Intel® UHD Graphics 620
Graphic Interface	LCD: Dual Channels 24-bit LVDS
	2 x DDI ports
OS support	
Windows 10 64-bit Linux: Ubuntu	

Mechanical & Environmental	
Power Requirement	5V~20V +/- 5% wide range voltage input, +5VSB
Power Consumption	TBD
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimensions (L x W)	95 x 95 mm (3.7” x 3.7”)
Dimensions	

Block Diagram



Ordering Information

EmETXe-i91U0-WT-8665UE	8th Generation Intel® Core™ i7-8665UE WT COM Express® Compact Type 6 CPU module
EmETXe-i9010D-WT-8665UE	8th Generation Intel® Core™ i7-8665UE WT COM Express® Compact Type 6 CPU module, w/ 32GB eMMC soldered on board
EmETXe-i91U0-WT-8365UE	8th Generation Intel® Core™ i5-8365UE WT COM Express® Compact Type 6 CPU module
EmETXe-i9010D-WT-8365UE	8th Generation Intel® Core™ i5-8365UE WT COM Express® Compact Type 6 CPU module, w/ 32GB eMMC soldered on board
EmETXe-i91U0-WT-8145UE	8th Generation Intel® Core™ i3-8145UE WT COM Express® Compact Type 6 CPU module
EmETXe-i9010D-WT-8145UE	8th Generation Intel® Core™ i3-8145UE WT COM Express® Compact Type 6 CPU module, w/ 32GB eMMC soldered on board
EmETXe-i91U0-WT-4305UE	8th Generation Intel® Celeron 4305UE WT COM Express® Compact Type 6 CPU module
EmETXe-i9010D-WT-4305UE	8th Generation Intel® Celeron 4305UE WT COM Express® Compact Type 6 CPU module, w/ 32GB eMMC soldered on board

Optional Accessories

HS-91U0-F2-T	Heat spreader, threaded standoffs (bore hole) (95x95x11mm)
HS-91U0-F2-NT	Heat spreader, non-threaded standoffs (bore hole) (95x95x11mm)
HS-91U0-C1	Heat sink with Fan (95x95x28.5mm)
PBE-1705-F3	COM Express® Type 6 evaluation carrier board with SIO F81868 module in ATX form factor
CBK-03-1705-00	Cable kit 1 x SATA cable 2 x Serial port cables