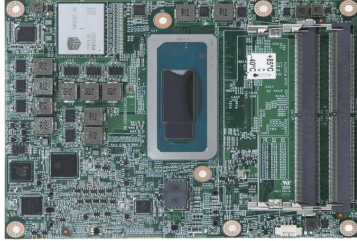


EmCOMe-i95M1

Intel® Meteor Lake Core™ Ultra Processor
COM Express® Type 6 Basic CPU Module



Features

- Soldered onboard Intel® Core™ Ultra Processor - H Series
- Intel® AI Boost - Integrated NPU accelerator
- Dual Channels DDR5 5600MT/s up to 64GB SO-DIMM
- Multiple I/O 2.5GbE Ethernet, PCIe Gen4, USB3.2, SATA3.0
- Support Max. 4 independent displays
- 8.5V~20V Wide Range Voltage Input
- **Wide Range Operating Temp.: -40 ~ 85°C**

System

CPU	Soldered onboard Intel® Core™ Ultra Processor - Core Ultra 7 165H 1.4GHz / 5.0GHz (Turbo) - Core Ultra 7 155H 1.4GHz / 4.8GHz (Turbo) - Core Ultra 5 135H 1.7GHz / 4.6GHz (Turbo) - Core Ultra 5 125H 1.2GHz / 4.5GHz (Turbo)
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Memory	2 x DDR5 SO-DIMM sockets
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BIOS	AMI UEFI BIOS
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Watchdog Timer	1~255 levels reset
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I/O

USB Port	12 x USB ports: - 8 x USB 2.0 ports - 4 x USB 3.0 ports
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Serial Port	2 x UART ports (RX/TX only)
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Expansion Bus	1 x PCIe8 Gen5 lanes 2 x PCIe4 Gen4 lanes 8 x PCIe1 Gen4 lanes
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Storage	2 x SATA ports with 600MB/s HDD tran rate 1 x NVMe SSD (Share Wihe PEG 1 x PCIe4 lanes)
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Ethernet Chipset	1 x Intel® i226 Series PCIe 2.5 GbE Ethernet controller
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Audio	HD audio link
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TPM	Supports TPM 2.0
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Display

Graphic Chipset	Integrated Intel®Xe LPG Graphics (depends on CPU SKU)
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Graphic Interface	1 x Dual Channel 24-bit LVDS (default) or eDP
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Graphic Interface	1 x Analog RGB port
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Graphic Interface	3 x DDI ports
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OS support

Windows 10 64-bit

Windows 11 64-bit

Linux: Ubuntu

Mechanical & Environmental

Power Requirement	8.5V~20V wide range voltage input, +5VSB
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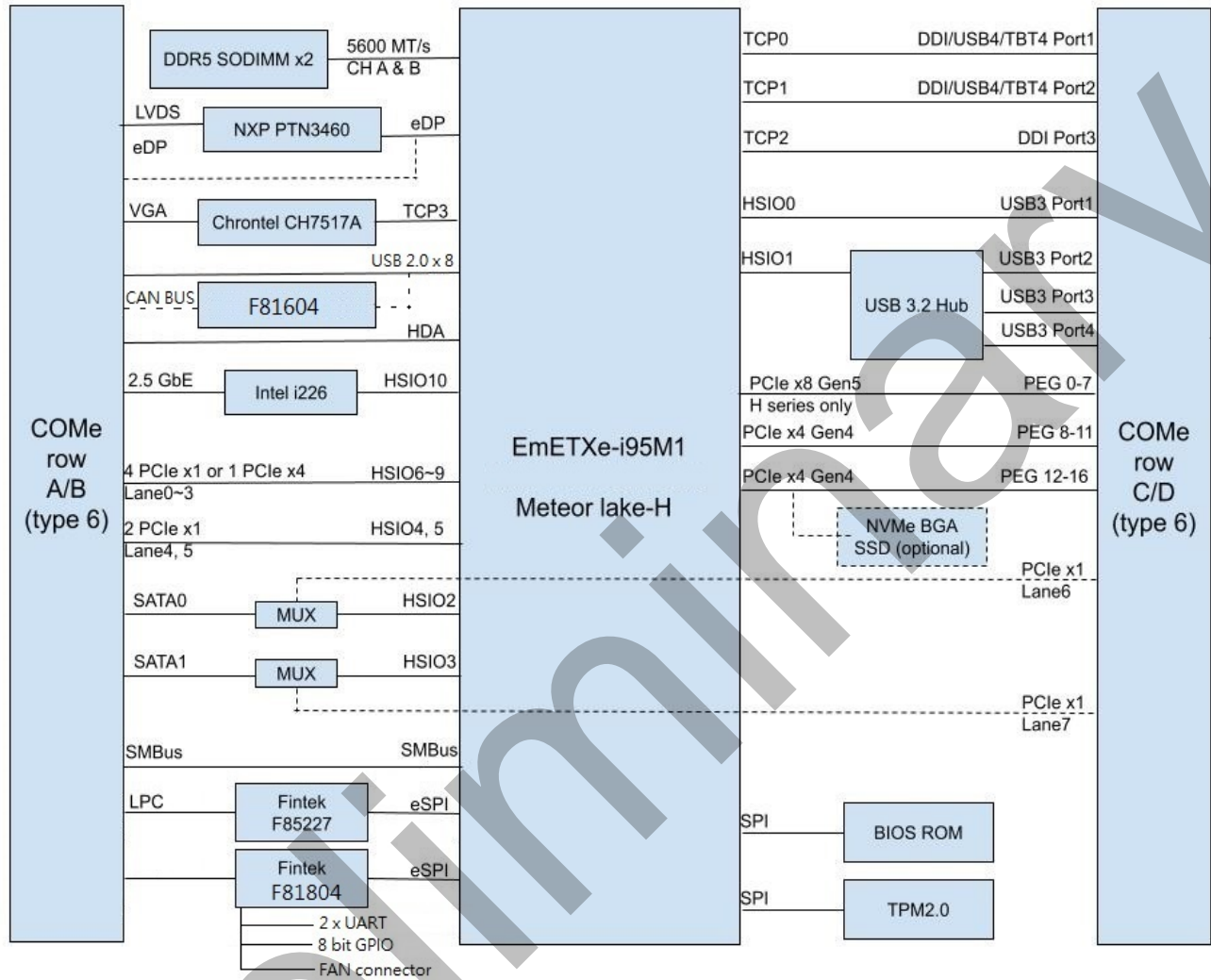
Power Consumption	TBD
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Operating Temp	-40 ~ 85°C (-40 ~ 185°F)
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Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
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Dimensions (L x W)	95 x 125 mm (3.7" x 4.9")
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Block Diagram



Ordering Information

EmCOMe-i95M1-WT-165H	Intel® Core™ Ultra 7 165H COMe Basic Type 6 CPU module, -40 ~ 85°C
EmCOMe-i95M1-WT-155H	Intel® Core™ Ultra 7 155H COMe Basic Type 6 CPU module, -40 ~ 85°C
EmCOMe-i95M1-WT-135H	Intel® Core™ Ultra 5 135H COMe Basic Type 6 CPU module, -40 ~ 85°C
EmCOMe-i95M1-WT-125H	Intel® Core™ Ultra 5 125H COMe Basic Type 6 CPU module, -40 ~ 85°C

Optional Accessories

HS-95M1-C1	Heat sink with Fan (95x95x37.6mm)
HS-95M1-F1-T	Heat spreader, threaded standoffs (bore hole) (95x95x11mm)
HS-95M1-F1-NT	Heat spreader, non-threaded standoffs (bore hole) (95x95x11mm)
PBE-1705	COM Express® Type 6 carrier board (ATX form factor)
CBK-03-1705-00	Cable kit 1 x SATA cable 2 x COM Flat cables