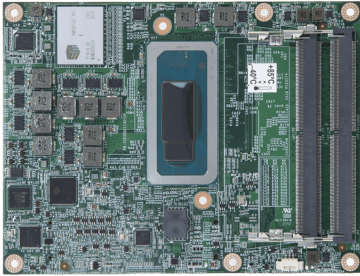


# EmCOMe-i94M0

## 13<sup>th</sup> Intel® Core™ i7-13800HE/ i5-13600HE/ i3-13300HE Processor COM Express® Type 6 Basic CPU Module



### Features

- Soldered onboard 13<sup>th</sup> Raptor Lake Intel® Core™ i7-13800HE/ i5-13600HE/ i3-13300HE Processor
- Intel® I226 Series PCIe 2.5GbE Ethernet controller
- Dual Channels 24-bit LVDS, Analog RGB and 3 x DDI ports
- Support Max. 4 independent displays
- 8.5V~20V Wide Range Voltage Input
- **Wide Range Operating Temp.: -40 ~ 85°C**

### System

	Soldered onboard 13 <sup>th</sup> Generation Intel® Core™
CPU	<ul style="list-style-type: none"> <li>- i7-13800HE 4.0GHz(E-core)/ 5.0GHz (P-core)</li> <li>- i5-13600HE 3.6GHz(E-core)/ 4.8GHz (P-core)</li> <li>- i3-13300HE 3.4GHz(E-core)/ 4.6GHz (P-core)</li> <li>- i7-1370PE 3.7GHz(E-core)/4.8GHz(P-core)</li> <li>- i5-1350PE 3.4GHz(E-core)/4.6Ghz(P-core)</li> <li>- i3-1320PE 3.3GHz(E-core)/4.5Ghz(P-core)</li> </ul>
Memory	2 x DDR5 SO-DIMM sockets
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset
<b>I/O</b>	
USB Port	12 x USB ports: <ul style="list-style-type: none"> <li>- 8 x USB 2.0 ports</li> <li>- 4 x USB 3.2 ports</li> </ul>
Serial Port	2 x UART ports (RX/TX only)
Expansion Bus	1 x PCIe8 lanes(H series only) 2 x PCIe4 lanes 8 x PCIe1 lanes (or 1 x PCIe4 + 4 x PCIe x1) I <sup>2</sup> C, GPIO, SMBUS, LPC Interface
Storage	2 x SATA ports with 600MB/s HDD transfer rate 1 x NVMe BGA SSD(optional)(Share PEG 1 x PCIe4)
Ethernet Chipset	1 x Intel®i226 series PCIe 2.5GbE Ethernet controller
Audio	HD audio link
TPM	Supports TPM 2.0
<b>Display</b>	
Graphic Chipset	Integrated Intel® Iris Xe or UHD Graphics (depends on CPU SKU)
Graphic Interface	1 x Dual Channel 24-bit LVDS (default) or eDP 1 x Analog RGB port 3 x DDI ports

### OS support

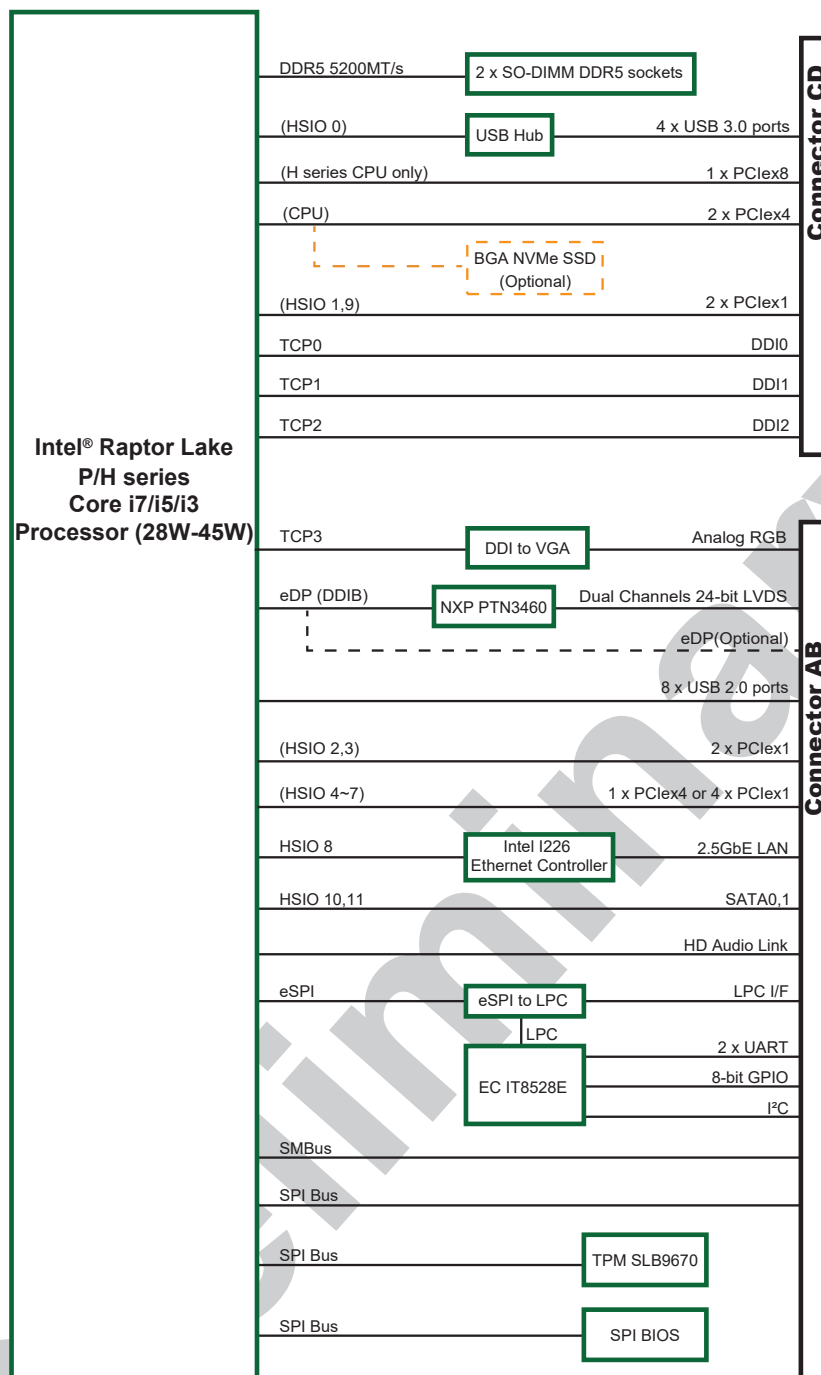
Windows 10 64-bit  
Windows 11 64-bit  
Linux: Ubuntu

### Mechanical & Environmental

Power Requirement	8.5V~20V 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 125 mm (3.7" x 4.9")



## Block Diagram



## Ordering Information

EmCOMe-i94M0-WT-13800HE	13 <sup>th</sup> Gen Intel Core i7-13800HE WT COMe Basic Type 6 CPU Module, -40~85°C
EmCOMe-i94M0-WT-13600HE	13 <sup>th</sup> Gen Intel Core i5-13600HE WT COMe Basic Type 6 CPU Module, -40~85°C
EmCOMe-i94M0-WT-13300HE	13 <sup>th</sup> Gen Intel Core i3-13300HE WT COMe Basic Type 6 CPU Module, -40~85°C
EmCOMe-i94M0-WT-1370PE	13 <sup>th</sup> Gen Intel Core i7-1370PE WT COMe Basic Type 6 CPU Module, -40~85°C
EmCOMe-i94M0-WT-1350PE	13 <sup>th</sup> Gen Intel Core i5-1350PE WT COMe Basic Type 6 CPU Module, -40~85°C
EmCOMe-i94M0-WT-1320PE	13 <sup>th</sup> Gen Intel Core i3-1320PE WT COMe Basic Type 6 CPU Module, -40~85°C
HS-93M0-C1	Heat sink 95*125mm,W/FAN+PAD
PBC-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