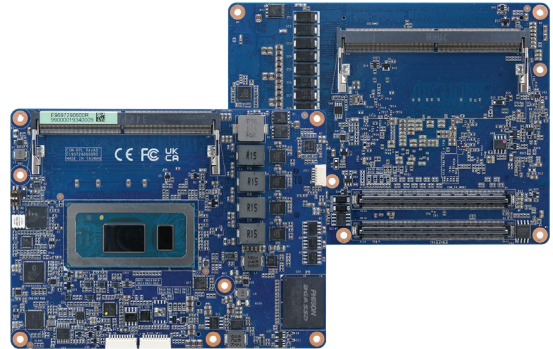


* This is an OEM Only Product

Coming Soon

Features

- 13th Gen Intel® Raptor Lake H-Series (45W), P-Series (28W), U-Series (15W) Processor onboard
- Intel® Iris® Xe Graphics on i7/i5 processors
- Supports 4 Independent Displays up to 4K (3DDI+eDP)
- 2 x SODIMM support up to 64GB (2x 32GB) DDR5 4800MT/s max
- Supports 4 x USB 3.2 Gen2, 8 x USB 2.0
- 9V-19V Wide Range DC-In



Specifications

System	
CPU	13th Gen Intel® Raptor Lake BGA Processor: Intel® Raptor Lake H-Series (45W) Intel® Raptor Lake P-Series (28W) Intel® Raptor Lake U-Series (15W)
PCH	Intel® Raptor Lake SoC Integrated
System Memory	2 x SODIMM support up to 64GB (2x 32GB) DDR5 4800MT/s max
BIOS	AMI uEFI BIOS, 128 Mbit SPI Flash ROM
I/O Chip	EC ITE IT5782
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
TPM	TPM 2.0
OS Support	Win 10, Win 11, Linux
Display	
Chipset	Intel® Iris® Xe Graphics on i7/i5 processors Intel® UHD Graphics on i3/Celeron® processors Intel® Gfx up to 96 EU
Resolution	GPU Feature Support Intel® Iris Xe or UHD Graphics Core Architecture, max. 96EUs, supporting 4 concurrent display combinations of DisplayPort/HDMI/LVDS/eDP/VGA and Display alternative mode through USB4/Thunderbolt4 outputs 1x 8K30 or 4x 4K @60. Digital Display Interface (DDI) 1/2/3 supporting DP 1.4a, HDMI 2.1, DVI VGA: max. resolution 1920x1200 @60Hz LVDS: max. resolution 1920x1200 @60Hz in dual mode eDP: Optional
Multi-Display	Supports 4 Independent Displays up to 4K (3DDI+eDP)
Ethernet	
Chipset	Intel® I226-LM/IT Ethernet Controller (2.5GbE)
Interface	10/100/1000/2500 Base-Tx GbE compatible

Audio	
Chipset	Intel® HD Audio
I/O	
PCI Express	1 x Gen4 PCIe x8 (Select SKU, H series) 2 x Gen4 PCIe x4 7 x Gen3 PCIe x1 (2 Lanes shares with SATA)
USB	Supports 4 x USB 3.2 Gen2 8 x USB 2.0
SATA	Supports 2 x SATA III (6.0Gb/s)
UART	2 x UART
Others	8-bit GPIO, LPC, I2C, SMBus, SPI
Mechanical & Environment	
Power	9V-19V Wide Range DC-In
ACPI	Single power ATX Support S0, S4, S5 ACPI 5.0a Compliant
Power Type	AT/ATX
Operating Temp	Operating Standard: 0 ~ 60 °C (32 ~ 140 °F) Operating Industrial (select SKUs): -40°C ~ 85°C (-40°F ~ 185°F)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Form Factor	PICMG COM R3.0 Type 6 COM Express Module
Certification Information	Compliant to CE, FCC Class B, RoHS Compliant
Dimensions	3.74" x 4.92" (125mm x 95mm)
Weight	0.44lbs (0.2kg)

Ordering Info

ESM-RPL Please contact BCMSales@bcmcom.com for details.

* All product specifications and images are subject to change without notice. Last update: 11/07/2023



BCM Advanced Research

11 Chrysler, Irvine, CA 92618 USA
An industry leader in industrial motherboards & embedded computing

www.bcmcom.com

BCMSales@bcmcom.com
(949) 470-1888