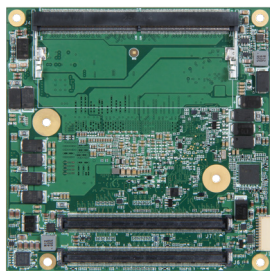
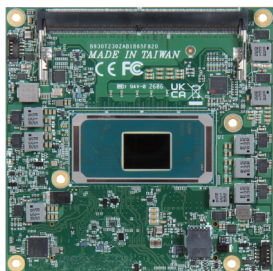


PCOM-B65F

COM Express Type VI Compact Size Module based on Intel® Core™ Ultra Processors (Series 3) with DDR5 SO-DIMM, PCIe Gen 5, USB 3.2 Gen 2, 2.5GbE Ethernet, TPM 2.0, DDI, eDP

Preliminary



FEATURES

- Intel® Core™ Ultra Processors (Series 3) (formerly Panther Lake-H) 15W~65W
- Up to 4 P-cores + 8 E-cores + 4 LPE cores
- Supports up to 4 Xe cores (40 TOPS) and NPU 5 (50 TOPS)
- 2x DDR5 SO-DIMM up to 128GB, 7200 MT/s with IBECC
- Supports up to 20 PCIe Gen4 lanes
- 4x USB 3.2 Gen 2, 2x DDI, eDP
- Extended temperature SKU options

General

General				
Model	PCOM-B65F			
Form Factor	COM Express Type 6 Compact Size (95 mm x 95 mm)			
CPU	Intel® Core™ Ultra 9 Processor 386H	Intel® Core™ Ultra 7 Processor 366H	Intel® Core™ Ultra 7 Processor 356H	Intel® Core™ Ultra 5 Processor 336H
Core/Thread	16	16	16	12
Based Frequency	2.1 GHz	2.0 GHz	1.9 GHz	1.9 GHz
Turbo Frequency	4.9 GHz	4.8 GHz	4.7 GHz	4.5 GHz
Cache	18 MB	18 MB	18 MB	18 MB
TDP	25 W	25 W	25 W	25 W
Graphics EU	4 Xe Cores	4 Xe Cores	4 Xe Cores	4 Xe Cores
Graphics Max Freq.	2.5GHz	2.5GHz	2.45GHz	2.3GHz
Memory Type/Speed	2x DDR5 SO-DIMM up to 128GB 7200MT/s	2x DDR5 SO-DIMM up to 128GB 7200MT/s	2x DDR5 SO-DIMM up to 128GB 7200MT/s	2x DDR5 SO-DIMM up to 128GB 7200MT/s
ECC Memory Support	IBECC	IBECC	IBECC	IBECC
Temperature Range	0 ~ 60 °C (32.0 ~ 140.0 °F)	0 ~ 60 °C (32.0 ~ 140.0 °F)	0 ~ 60 °C (32.0 ~ 140.0 °F)	0 ~ 60 °C (32.0 ~ 140.0 °F)
BIOS	AMI uEFI BIOS			
ECC	Board			
Memory	2x SO-DIMM DDR5 up to 128GB 7200 MT/s			

I/O Interface

USB	4x USB 3.2 Gen2 8x USB 2.0
Ethernet	1x 2.5 Gbe LAN (Shared w/ PCIe)
PCIe	1x PCIe Gen5 x8 1x PCIe Gen5 x4 7x PCIe Gen4 x1
Legacy I/O	8x GPIO 2x UART
Security	TPM 2.0
Display	eDP up to HBR3 2x DDI DP up to HBR3

Dimension	95 mm x 95 mm (3.74" x 3.74")
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
OS	Linux, Windows 11
Portwell Special Feature	Portwell Engineering Toolkit (PET)

Product	Ordering P/N	Status
PCOM-B65F-386H	TBD	In Development
PCOM-B65F-366H	TBD	In Development
PCOM-B65F-356H	TBD	In Development
PCOM-B65F-336H	TBD	In Development

Accessory	Ordering P/N	Status
Cooler (copper elastic pad)	TBD	Contact US

PCOM-B65F



0°C ~ 60°C
-40°C ~ 85°C

AT / ATX Mode

12v input