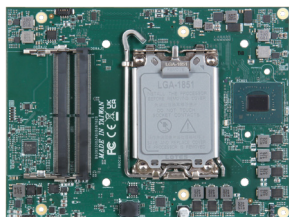


PCOM-B887

Intel® Core™ Ultra Series; 4x DDR5 C/SO-DIMM up to 192GB; PCIe Gen5x16, Gen5x4; USB4, 3x USB 3.2; 2x SATA, 3x DDI, eDP; AI NPU



FEATURES

- Intel® Core™ Ultra Series 200S socket CPU processor
- Support PCIe Gen5 x16, PCIe Gen5 x4, PCIe Gen4
- 4x DDR5 C/SO-DIMM up to 192GB 4800 MT/s
- 1x USB4, 3x USB 3.2, 2x SATA, 3x DDI, eDP
- Integrated NPU for dedicated AI acceleration



General

Model	PCOM-B887							
CPU	Ultra 9 285	Ultra 9 285T	Ultra 7 265	Ultra 7 265T	Ultra 5 245	Ultra 5 245T	Ultra 5 225	Ultra 5 225T
Core/Thread	8P + 16E/24T	8P + 16E/24T	8P + 12E/20T	8P + 12E/20T	6P + 8E/14T	6P + 8E/14T	6P + 4E/10T	6P + 4E/10T
Based Frequency	2.5	1.4	2.4	1.5	3.5	2.2	3.3	2.5
Turbo Frequency	5.6	5.4	5.3	5.3	5.1	5.1	4.9	4.9
Cache	36	36	30	30	24	24	20	20
TDP	65	35	65	35	65	35	65	35
Graphics EU	64	64	64	64	48	48	32	32
Graphics Max Freq.	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
PCH	W880/Q870	W880/Q870	W880/Q870	W880/Q870	W880/Q870	W880/Q870	W880/Q870	W880/Q87
Memory Type/Speed	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s	4x DDR5 SO-DIMM up to 192GB 4800MT/s
ECC Memory Support	only with W880	only with W880	only with W880	only with W880	only with W880	only with W880	No Support	No Support
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)	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 BIOS							
ECC	(ECC)							
Memory	4 x SO-DIMM DDR5 up to 192GB 5600 MT/s							

I/O Interface

SATA	2x SATA III
USB	1x USB4 3x USB 3.2 Gen2 8x USB 2.0
Ethernet	2x 2.5 Gbe LAN
PCIe	1x Gen5 x16 1x Gen5 x4 3x Gen4 x4 1 x PCIe Gen4 x2 8 x PCIe Gen4 x1
Legacy I/O	12x GPIO 2x I ² C 2x UART 1x SMBus
Security	TPM 2.0
Display	eDP eDP up to HBR3 3840 x 2160@120Hz DDI 1/2/3 DP up to HBR3 3840 x 2160@120Hz

MECHANICAL & ENVIRONMENT

Dimension	160 mm x 120 mm (6.3" x 4.72")
Operating Temperature	0 ~ 60 °C (32.0 ~ 140.0 °F)
Storage Temperature	-40 ~ 85 °C (-40.0 ~ 185.0 °F)
Certification	FCC
OS	Windows 11, Ubuntu 20.04
Portwell Special Feature	PET

ORDERING GUIDE

Category	Product	Description	P/N	Status
COM-HPC	PCOM-B887-W880E	COM-HPC Client Module, Size C.	AB1-3T65	Available
Accessory	Cooler (1U)	B887 1U Cooler	B9972080	Available
Accessory	Cooler (2U)	B887 2U Cooler	B9972100	Available
Accessory	Cooler (backplate)	B887 Cooler backplate	B723M670	Available
Carrier Board	PCOM-C881	COM-HPC Carrier	AB1-3S83Z	Available

BLOCK DIAGRAM

PCOM-B887 Preliminary

