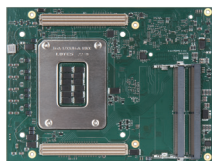


PCOM-B885

COM-HPC® Client module Size C module with Intel® 13th/14th Gen socket type processor (Code Name: Raptor Lake-S Refresh) DDR5 SO-DIMM, DDI, PCIe Gen4, USB 3.2 Gen2, 2.5G Ethernet, discrete TPM 2.0, eDP, SATA



FEATURES

- 13th/14th Gen Intel® Core™, Pentium®, Celeron® series socket type processors in Intel® 7 lithography
- Up to 8x performance core + 16x efficient core, and up to 32x graphic execution units
- 4x DDR5 ECC/non-ECC SO-DIMM up to 192GB capacities
- 1x PCIe Gen4 x16, 4x PCIe Gen4 x4, 2x PCIe Gen3 x4, 1x PCIe Gen3 x2, 4x USB3.2 Gen2 x1, 2x SATA, 3x DDI, eDP



PCOM-B885 is COM-HPC module based on Intel® 13th/14th Core™ platform. It is compatible with COM-HPC 1.15 standard. The platform adopts Intel 7 lithography and VNNI instruction set, offers advance computing power with 35~65W thermal and embedded use condition for wide range application. PCOM-B885 supports PCIe Gen4 up to 16x lanes, and 4x ECC/Non-ECC DDR5 SO-DIMM(memory capacity up to 192GB), which is suit for mission critical use conditions and AI edge computing. This module also provides 4x PCIe Gen4 x4 2x PCIe Gen3 x4, and 1x PCIe Gen3 x2, 4x USB3.2 Gen2 x1, and 2x SATA. The complete and flexible I/O capacity also mapped to wide range of industrial applications.

CPU and General

Product	PCOM-B885									
Form Factor	COM HPC Client, Size C (160 x 120mm)									
CPU SKU	TDP	Core (P+E)	Threads	Cache	Base Freq	Max Turbo Freq	Max Memory MT/s	ECC	vPro	PEG Bifurcation
i9-14900	65 W	8 + 16	32	36 MB	2.0 Ghz	5.8 Ghz	4000 MT/s(2DPC)	R680E	R680E Q670E	R680E Q670E
i9-14900T	35 W	8 + 16	32	36 MB	1.1 Ghz	5.5 Ghz				
i7-14700	65 W	8 + 12	28	33 MB	2.1 Ghz	5.4 Ghz				
i7-14700T	35 W	8 + 12	28	33 MB	1.3 Ghz	5.2 Ghz				
i5-14500	65 W	6 + 8	20	24 MB	2.6 Ghz	5.0 Ghz		N/A	N/A	
i5-14500T	35 W	6 + 8	20	24 MB	1.7 Ghz	4.8 Ghz				
i5-14400	65 W	6 + 4	16	20 MB	2.5 Ghz	4.7 Ghz				
i5-14400T	35 W	6 + 4	16	20 MB	1.5 Ghz	4.5 Ghz				
i3-14100	60 W	4 + 0	8	12 MB	3.5 Ghz	4.7 Ghz		R680E	N/A	
i3-14100T	35 W	4 + 0	8	12 MB	2.7 Ghz	4.4 Ghz				
Processor 300	46 W	2 + 0	4	6 MB	3.9 Ghz	3.9 Ghz				
Processor 300T	35 W	2 + 0	4	6 MB	3.4 Ghz	3.4 Ghz				

I/O Interface

SATA	2x SATA III		
USB	4x USB 3.2 Gen2 x1 8x USB 2.0		
Ethernet	2x Intel® I226 series		
Serial I/O	GPIO		12 bit GPIO (default 6 input/6 output)
	I ² C		Baud Rate : 400KHz
	SMBus		Baud Rate : 100KHz
	UART		TX/RX signal only
PCIe lane	1x PCIe Gen4 x16 (bifurcation 2 x8) 4x PCIe Gen4 x4 2x PCIe Gen3 x4 + 1x PCIe Gen3 x2		
Display	Module display interface		Carrier output options
	eDP		eDP up to HBR3
	DDI 0/1/2		DP up to HBR3
			DP up to HBR3
Security	TPM 2.0		

MECHANICAL & ENVIRONMENT

Dimension	160 x 120mm
Power DC IN	Normal: +12V DC AT/ATX mode
Storage Temperature	-40°C to 85°C
Operating Temperature	0°C to 60°C
Certification	Contact us
MTBF	TBD
Vibration	TBD
OS	Windows 10/11 Ubuntu

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B885-R680E	AB1-3R22	Available
PCOM-B885-Q670E	AB1-3R23	Available

Accessory	Ordering P/N	Status
Cooler (1U / 95w)	B9972080	Available
Cooler (2U / 125w)	B9972100	Available
Cooler (backplate)	B723M670	Available
Heat Spreader (Heatpipe)	TBD	In Development
PCOM-C880 (ATX carrier board)	AB1-3L34Z	In Development

BLOCK DIAGRAM

PCOM-B885

