



FANLESS EMBEDDED SYSTEM WITH INTEL®
RAPTOR LAKE-S REFRESH14/13TH SOCKET
PROCESSOR







- Intel® Raptor Lake-S Core™ i Processor
- DDR5-4800 SO-DIMM up to 96G (non-ECC/ ECC)
- 8 x USB3.2, 4 x 2.5GbE LAN, 3 x COM
- Multi Display: HDMI/VGA/DP
- 1 x Swappable 2.5" SSD Tray
- 2 x PCle Expansion
- System Power Wide Range DC-IN 9~48V
- Operating Temperature -20°C to 60°C
- Optional Expansion: PoE (RJ45)/CANBUS/DIDO

Introduction

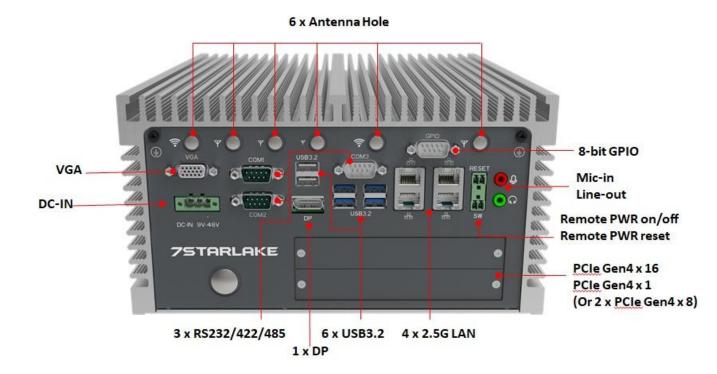
Purpose-built for rugged environments and demanding applications, the IP66 fanless embedded CPT200-L offers robust protection against dust, water, and harsh conditions. With 2 x PCIe expansion slots, it provides enhanced flexibility for add-on cards and system customization, making it ideal for deployment in transportation systems, heavy-duty vehicles, mining trucks, and outdoor industrial consoles.

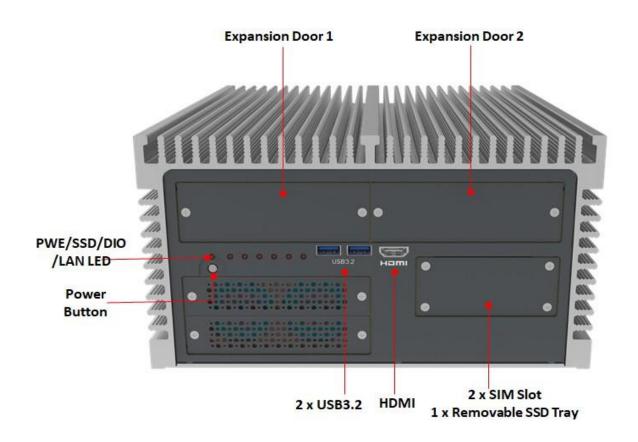
Powered by the latest Intel® 14th/13th Gen Raptor Lake-S Core™ i9/i7/i5/i3 processors (up to 65W), the CPT200-L delivers up to 1.35× greater performance than previous generations, ensuring faster data processing and improved multitasking for demanding applications. Its optimized architecture provides lower latency, higher throughput, and reduced power consumption, enabling reliable operation in mission-critical environments. This powerful platform is designed to support real-time monitoring, edge AI, predictive maintenance, and data-intensive industrial control.

The CPT200-L supports DDR5-4800 SO-DIMM memory up to 96GB and offers extensive connectivity with 8× USB 3.2, 4× 2.5GbE LAN ports, and 3× COM ports, ensuring seamless integration with a wide range of peripherals, sensors, and network devices. Its triple-display output via HDMI, VGA, and DP provides versatile visualization options for control rooms or multi-screen dashboards. A swappable 2.5" SSD tray provides convenient storage management in the field, reducing system downtime. For specialized industrial and transportation applications, optional expansion features include PoE (RJ45) for powering network devices, CANBUS for vehicle communication systems, and DIDO for digital input/output control, further enhancing adaptability.

Built to perform under extreme conditions, the CPT200-L operates reliably in temperatures ranging from -20°C to 60°C. Its durable aluminum enclosure not only delivers a sleek industrial appearance but also supports advanced fanless thermal management. Resistant to vibration and high heat, the CPT200-L is built to ensure uninterrupted performance in challenging environments such as transportation hubs, smart infrastructure, energy systems, and outdoor deployments.

Appearance





Specifications

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CPU	14th/13th/12th Gen Intel® Raptor Lake-S/Alder Lake-S Core™ i9/i7/i5/i3/Celeron/Pentium (Up to 65W)
Chipset	Intel® R680E
Memory type	2 x 262-pin SO-DIMM / DDR5 4800 MHz / Max. 96 GB (Non-ECC/ ECC)
Storage Device	1 x 2.5" Removable SSD Tray, 1 x Internal 2.5" SSD Tray
EXPANSION	
M.2/mPCle	1 x M.2 M key 2242/2260/2280 (PCIe4.0x4, SATAIII) w/OS Storage 1 x M.2 B key 3042/3052/2260 (PCIex1, USB, SATAIII) w/4G,5G 1 x M.2 E key 2230 (PCIex1, USB) w/wifi, BT 1 x mPCIe (PCIex1, USB, SATAIII)
FRONT I/O	
HDMI	1 x HDMI
USB	2 x USB3.2 Gen2 x 2
SIM Slot	2
I/O Expansion Door	3
Swappable SSD Tray	1
Power Button	1
PWR LED	1
HDD LED	1
GPIO LED	1
LAN ACT LED	4
REAR I/O	
COM	3 x RS232 / 422 / 485
Ethernet	4 x RJ45
USB	6 x USB3.2 Gen2 x 2
GPIO	8bit (4in/4out)
DisplayPort	1 x DP
VGA	1 x VGA
Terminal Block	1 x Terminal Block Remote Power ON/OFF 1 x Terminal Block Remote Reset

AUDIO	1 x Mic-in, 1 x Line-out					
PCIe Expansion	PCle Gen4 x 16 ; 1 x PCle Gen4 x 1 (or 2* PCle Gen4 x 8)					
POWER REQUIREMENT						
Power Input	DC-IN 9~48V					
APPLICATIONS, O	PERATING SYSTEM					
Operating System	Windows 10/11 64Bit; Linux (support by request)					
PHYSICAL						
Dimensions (W x D x H)	248 x 268 x 133 mm					
Chassis	Aluminum					
Heatsink	Aluminum Alloy, Corrosion Resistant					
Finish	Anodic aluminum oxide					
ENVIRONMENTAL						
Green Product	RoHS designed to meet					
Operating Temperature	35W TPD Processor : -20°C to 60°C 65W TPD Processor : -20°C to 50°C					
Storage Temperature	-40 to 85°C					
Relative Humidity	5% to 95%, non-condensing					
EMC	CE and FCC designed to meet					
MIL-STD-810 EN	IVIRONMENT TESTING STANDARDS					
Method 501, Operational Temperature, high	Procedure II: +60°C, two-hour dwell, four cycles					
Method 501, Storage Temperature, high	Procedure I: +70°C, two-hour dwell, four cycles					
Method 502, Operational Temperature, low	Procedure II: -20°C, two-hour dwell, four cycles					
Method 502, Storage Temperature, low	Procedure I: -30°C, two-hour dwell, four cycles					
Method 514, Vibration	Category 24/Non-Operating (Category 20 & 24, Vibration)					
Method 514, Vibration	Category 20/Operating (Category 20 & 24, Vibration)					
Method 516, Shock	Procedure V Non-Operating (Mechanical Shock)					
Method 516, Shock	Procedure I Operating (Mechanical Shock)					
Method 507, Humidity	Procedure II: exposure to 10 cycles of 95% relative humidity at temperatures of 30 $^{\circ}$ C to 60 $^{\circ}$ C with conformal coating (optional)					

Ordering Information

CPT200-L

Fanless Computer with Intel® 14/13/12th Gen Core $^{\text{TM}}$ i9/i7/i5/i3 Processor up to 65W , 96G SO-DIMM DDR5 4800MHz, 4×2.5 GbE RJ45, 8×0 USB3.2, 1×0 DP, 1×0 HDMI, 1×0 VGA, 3×0 COM, 8-bit GPIO, 1×0 SwapSSD Tray, 1×0 Internal SSD Tray, 2×0 Expansion PCIe Slot, DC-IN 9~48V, Operating Temperature $-20^{\circ}\text{C} \times +60^{\circ}\text{C}$

Model	CPU	POE	CANBUS	8bit DIDO	10G (Option)	GPU
		(Option)	(Option)	(Option)		T4
CPT200-L-i5		N/A	N/A	N/A		
CPT200-L-i5-4P			N/A	N/A		
CPT200-L-i5-4P2C		4 x PoE	2 x CANBUS	N/A		N/A
CPT200-L-i5-4P8D			N/A	4in/4out DIDO	N/A	
CPT200-L-i5-4P2C8D	RPL-S i5-13500TE		2 x CANBUS	4in/4out DIDO		
CPT200-L-i5-8P			N/A	N/A		
CPT200-L-i5-8P2C		8 x PoE	2 x CANBUS	N/A		
CPT200-L-i5-8P8D			N/A	4in/4out DIDO		
CPT200-L-i5-12P		12 x PoE	N/A	N/A		
CPT200-L-i7		N/A	N/A	N/A		
CPT200-L-i7-4P		4 x PoE -	N/A	N/A		
CPT200-L-i7-4P2C			2 x CANBUS	N/A		
CPT200-L-i7-4P8D			N/A	4in/4out DIDO		
CPT200-L-i7-4P2C8D	RPL-S i7-13700TE		2 x CANBUS	4in/4out DIDO		
CPT200-L-i7-8P			N/A	N/A		
CPT200-L-i7-8P2C			2 x CANBUS	N/A		
CPT200-L-i7-8P8D			N/A	4in/4out DIDO		
CPT200-L-i7-12P		12 x PoE	N/A	N/A		
CPT200-L-i9		N/A	N/A	N/A		
CPT200-L-i9-4P			N/A	N/A		
CPT200-L-i9-4P2C		4 D - E	2 x CANBUS	N/A		
CPT200-L-i9-4P8D		4 x PoE -	N/A	4in/4out DIDO		
CPT200-L-i9-4P2C8D	RPL-S i9-13900TE		2 x CANBUS	4in/4out DIDO		
CPT200-L-i9-8P		8 x PoE	N/A	N/A		
CPT200-L-i9-8P2C			2 x CANBUS	N/A		
CPT200-L-i9-8P8D			N/A	4in/4out DIDO		
CPT200-L-i9-12P		12 x PoE	N/A	N/A		

Model	CPU	PoE	CANBUS	8bit DIDO	10G (Option)	GPU
		(Option)	(Option)	(Option)		T4
CPT200-LN-i5		N/A	N/A	N/A		
CPT200-LN-i5-4P			N/A	N/A		
CPT200-LN-i5-4P2C		. 5.5	2 x CANBUS	N/A		
CPT200-LN-i5-4P8D		4 x PoE	N/A	4in/4out DIDO	2*2 x 10G LAN	N/A
CPT200-LN-i5-4P2C8D	RPL-S i5-13500TE		2 x CANBUS	4in/4out DIDO		
CPT200-LN-i5-8P			N/A	N/A		
CPT200-LN-i5-8P2C		8 x PoE	2 x CANBUS	N/A		
CPT200-LN-i5-8P8D			N/A	4in/4out DIDO		
CPT200-LN-i5-12P		12 x PoE	N/A	N/A		
CPT200-LN-i7	RPL-S i7-13700TE	N/A	N/A	N/A		
CPT200-LN-i7-4P		4 x PoE -	N/A	N/A		
CPT200-LN-i7-4P2C			2 x CANBUS	N/A		
CPT200-LN-i7-4P8D			N/A	4in/4out DIDO		
CPT200-LN-i7-4P2C8D			2 x CANBUS	4in/4out DIDO		
CPT200-LN-i7-8P			N/A	N/A		
CPT200-LN-i7-8P2C			2 x CANBUS	N/A		
CPT200-LN-i7-8P8D			N/A	4in/4out DIDO		
CPT200-LN-i7-12P		12 x PoE	N/A	N/A		
CPT200-LN-i9		N/A	N/A	N/A		
CPT200-LN-i9-4P		4 x PoE -	N/A	N/A		
CPT200-LN-i9-4P2C			2 x CANBUS	N/A		
CPT200-LN-i9-4P8D			N/A	4in/4out DIDO		
CPT200-LN-i9-4P2C8D	RPL-S i9-13900TE		2 x CANBUS	4in/4out DIDO		
CPT200-LN-i9-8P		8 x PoE	N/A	N/A		
CPT200-LN-i9-8P2C			2 x CANBUS	N/A		
CPT200-LN-i9-8P8D			N/A	4in/4out DIDO		
CPT200-LN-i9-12P		12 x PoE	N/A	N/A		

Model	CPU	PoE	CANBUS	8bit DIDO	10G (Option)	GPU
Model		(Option)	(Option)	(Option)		T4
CPT200-LNT-i5		N/A	N/A	N/A		
CPT200-LNT-i5-4P			N/A	N/A		
CPT200-LNT-i5-4P2C		4 v Do F	2 x CANBUS	N/A	2 x 10G LAN	
CPT200-LNT-i5-4P8D		4 x PoE	N/A	4in/4out DIDO		
CPT200-LNT-i5-4P2C8D	RPL-S i5-13500TE		2 x CANBUS	4in/4out DIDO		
CPT200-LNT-i5-8P			N/A	N/A		
CPT200-LNT-i5-8P2C		8 x PoE	2 x CANBUS	N/A		
CPT200-LNT-i5-8P8D			N/A	4in/4out DIDO		
CPT200-LNT-i5-12P		12 x PoE	N/A	N/A		
CPT200-LNT-i7		N/A	N/A	N/A		
CPT200-LNT-i7-4P		4 x PoE	N/A	N/A		Tesla T4
CPT200-LNT-i7-4P2C			2 x CANBUS	N/A		
CPT200-LNT-i7-4P8D			N/A	4in/4out DIDO		
CPT200-LNT-i7-4P2C8D	RPL-S i7-13700TE		2 x CANBUS	4in/4out DIDO		
CPT200-LNT-i7-8P		8 x PoE	N/A	N/A		
CPT200-LNT-i7-8P2C			2 x CANBUS	N/A		
CPT200-LNT-i7-8P8D			N/A	4in/4out DIDO		
CPT200-LNT-i7-12P		12 x PoE	N/A	N/A		
CPT200-LNT-i9		N/A	N/A	N/A		
CPT200-LNT-i9-4P			N/A	N/A		
CPT200-LNT-i9-4P2C		4 D	2 x CANBUS	N/A		
CPT200-LNT-i9-4P8D		4 x PoE	N/A	4in/4out DIDO		
CPT200-LNT-i9-4P2C8D	RPL-S i9-13900TE		2 x CANBUS	4in/4out DIDO		
CPT200-LNT-i9-8P		8 x PoE	N/A	N/A		
CPT200-LNT-i9-8P2C			2 x CANBUS	N/A		
CPT200-LNT-i9-8P8D			N/A	4in/4out DIDO		
CPT200-LNT-i9-12P		12 x PoE	N/A	N/A		

This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representatives.