



# GFININ

FANLESS EMBEDDED IP66 WATER-PROOF SYSTEM
WITH INTEL METEOR LAKE-U 14TH GEN
BGA PROCESSOR





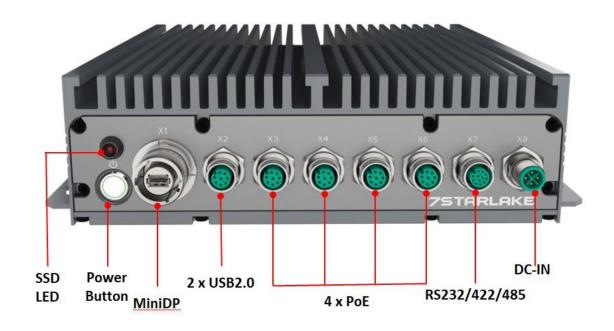
- Intel® Meteor Lake U Core™ Ultra 7 155U / Ultra 5 125U processors
- 1 x DDR5 SO-DIMM and support up to 48GB
- 1 x MiniDP w/D38999
- 4 x 2.5G POE LAN w/M12 Connectors
- 2 x USB 2.0 w/ M12
- 1 x RS232/422/485 w/M12
- 8V~26V wide voltage power input w/M12
- IP66/MIL-STD-810G/EN50155 Standards
- Operation Temperature: -20°C~60°C

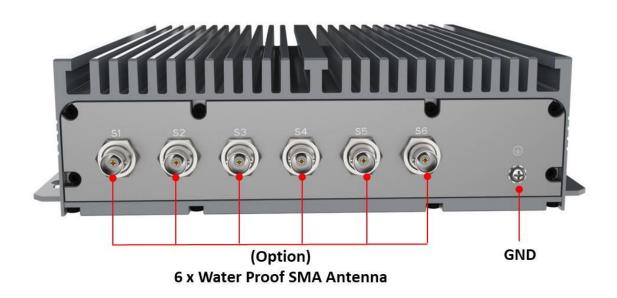
### Introduction

Engineered for edge intelligence, the IP66-rated CPT100X fanless embedded system combines high-speed connectivity with versatile I/O through robust M12 connectors. Featuring 1 x DDR5 SO-DIMM supporting up to 48GB, it provides the memory bandwidth required for data-intensive AI workloads. Four PoE-enabled 2.5G LAN ports via M12 connectors deliver both data and power to cameras, sensors, and other devices, enabling seamless deployment of AI-driven applications such as intelligent surveillance and environmental monitoring. The system also integrates six waterproof SMA antennas and a GND port for enhanced connectivity.

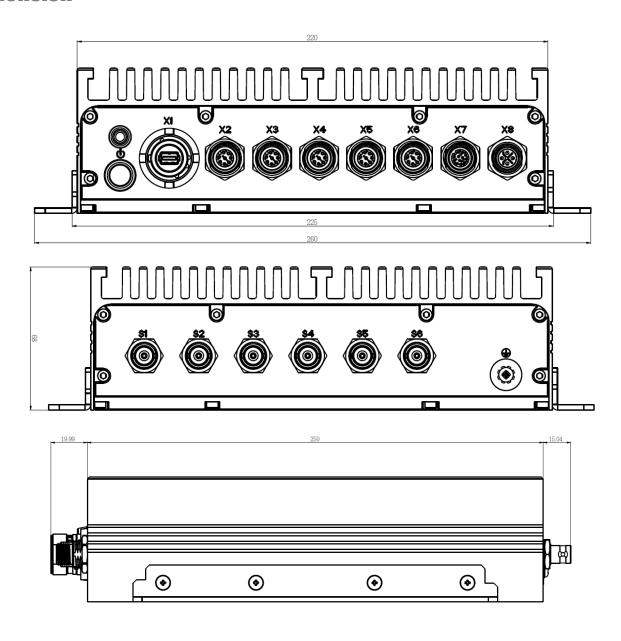
Designed for extreme environments, the CPT100X meets the stringent MIL-STD-810G, EN 50155, and IP66 standards, ensuring durability against wide temperature ranges, shock, vibration, dust, and water. With 20G shock resistance and strong electromagnetic compatibility (EMC), it is mission-ready for rail, industrial, outdoor, and transportation deployments. Its rugged build and versatile I/O make the CPT100X a reliable, high-performance platform for critical AI, surveillance, and industrial applications in harsh conditions.

## **APPEARANCE**





# **Dimension**



# **Specifications**

#### SYSTEM

High Performance Processor	Intel® Meteor Lake U Core™ Ultra 7 155U / Ultra 5 125U Processor					
Memory type	DDR5 4800 MHz / 1 x 262-pin SO-DIMM / Max. 48GB (Non-ECC)					
Chipset	Intel® SoC Integrated					
Graphics	Intel® Iris Xe Graphics					
DISPLAY						
MiniDP	Resolution up to 4096 x 2304 @60Hz					
STORAGE						
HDD/SDD	1 x 2.5" Solid State Disk (SSD) 1 x M.2 M Key 2280 NVMe/SATA SSD Slot					
EXPANSION	1 X W.2 W Rey 2200 NVINIE/ SAIA 33D SIOC					
M.2	1 x M.2 M key 2280 (PCle4.0x4,SATAIII) w/OS Storage					
	1 x M.2 B key 2242/3042/3052 (PClex1,USB,SATAIII) w/4G,5G					
	1 x M.2 E key 2230 (PCIe x1,USB)					
FRONT I/O						
COM	1 x RS232/422/485 w/1 x M12					
USB	2 x USB2.0 w/ 1 x M12					
POE	4 x 2.5G LAN PoE w/4 x M12					
Display	1 x MiniDP w/1 x D38999					
Power Input	1 x DC-IN w/1 x M12					
LED	1 x SSD LED					
Power Button	1 x w/indicator Power Button					
REAR I/O						
(Option) Antenna	6 x Waterproof SMA Antenna Connector					
POWER REQUIRE	MENT					
Power Input	DC-IN 8~26V					
APPLICATIONS, OPERATING SYSTEM						
Operating System	Windows 10/11 64Bit					
	Linux (support by request)					

#### **PHYSICAL**

Dimensions (W x D x H)	220 x 250 x 68 mm			
Chassis	Aluminum			
Heatsink	Aluminum Alloy, Corrosion Resistant			
Finish	Anodic aluminum oxide			
Waterproof Rating	IP66			
Green Product	RoHS			
Operating Temperature	-20°C to 60°C			
Storage Temperature	-40°C to 85°C			
Relative Humidity	5% to 95%, non-condensing			
EMC	CE and FCC			
MIL-STD-810G E	NVIRONMENT 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 temperatures of 30 °C to 60 °C with conformal coating (optional)			

## **Ordering Information**

#### CPT100X-125U

IP66 Fanless Embedded System with Intel® Core Ultra 5 125U Meteor Lake-U Processor (Up to 15W , Turbo up to 57W), 1 x DDR5 4800MHz SO-DIMM up to 48GB, 1 x MiniDP w/1 x D38999, 2 x USB2.0 w/1 x M12, 4 x PoE LAN w/4 x M12, 1 x RS232/422/485 w/1 x M12 , 8~26V DC-IN w/1 x M12, Operating Temperatures -20°C  $\sim$ +60°C

#### CPT100X-155U

IP66 Fanless Embedded System with Intel® Core Ultra 7 155U Meteor Lake-U Processor (Up to 15W , Turbo up to 57W), 1 x DDR5 4800MHz SO-DIMM up to 48GB, 1 x MiniDP w/1 x D38999, 2 x USB2.0 w/1 x M12, 4 x PoE LAN w/4 x M12, 1 x RS232/422/485 w/1 x M12, 8~26V DC-IN w/1 x M12, Operating Temperatures -20°C  $\sim$ +60°C

Model	CPU	Memory	SSD1 (OS)	SSD2 (Storage)	POE
CPT100X-125U-8GP	Core Ultra 5 125U	8GB			
CPT100X-125U-16GP		16GB	256GB	1TB	
CPT100X-125U-32GP		32GB	23000	IID	
CPT100X-125U-48GP		48GB			4 x PoE
CPT100X-155U-8GP	Core Ultra 7 155U	8GB			4 X POE
CPT100X-155U-16GP		16GB	512GB	2TB	
CPT100X-155U-32GP		32GB	SIZGD	∠ID	
CPT100X-155U-48GP		48GB			

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