

.XTB-254606D1

Marine Computer with 13th Gen Intel® Celeron®/Core™ i3/i5/i7 Processor

Overview

The XTB-254606D1 marine computer features a rugged aluminum enclosure and a fanless design. It is powered by the 13th Gen Intel® Celeron® /Core™ i3/i5/i7 Processor and includes 4x NMEA 0183 (RS-422/485) ports, 8 isolated DIO, and 2x removable 2.5" SSD drive bays. With 2x DP, 6xUSB, 4x LAN, and supports TPM 2.0, it offers optional Wi-Fi, Bluetooth, LTE/5G, GPS, and CAN2.0 capabilities. It is IEC 60945/61162-1/2 and IACS E10 certified(Pending).

Features

- Rugged aluminum enclosure and fanless design
- 13th Gen Intel® Celeron® /Core™ i3/i5/i7 Processor
- 4x NMEA 0183 (RS-422/485), 8 x isolated DIO ports
- 2x removable 2.5" SSD drive bays, RAID 0,1 Hot-Swap
- 2x DP, 6x USB, 4x 2.5GbE LAN, TPM 2.0
- Optional Wi-Fi, Bluetooth, LTE/5G, GPS, CAN2.0
- IEC 60945/61162-1/2, IACS E10 certified(Pending)



Windows
11/10



Fanless



Operating
Temp.



Marine
IEC 60945



DC Input
9-36 VDC

I/O Interfaces



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Specifications

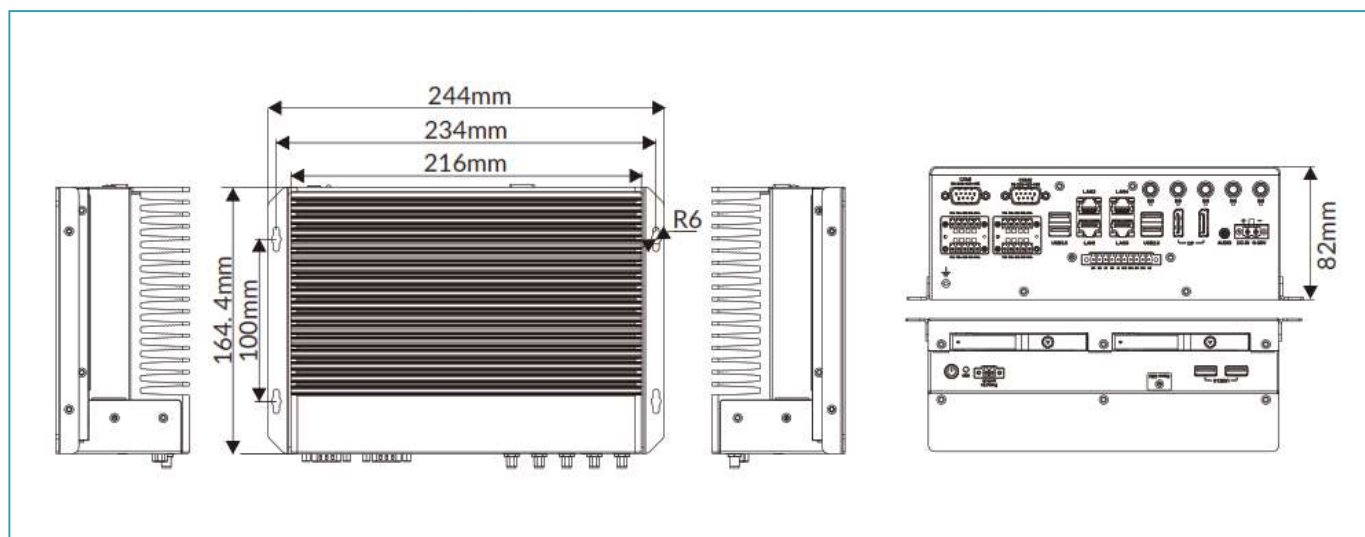
SYSTEM	
CPU	Intel® Celeron® -7305E Intel® Core™ i3-1315UE Intel® Core™ i5-1345UE Intel® Core™ i7-1365UE
Memory	2x SO-DIMM DDR5-4800/5200 MT/s (up to 64GB)
Storage	1x M.2 Key M 2242/2280, Nvme PCIe x4 SSD 2x removable 2.5" SSD drive bays, RAID 0,1 Hot-Swap
GPU	Intel® UHD Graphics
TPM	Built-in onboard hardware TPM2.0-NPCT760AABYX
Watchdog Timer	Software programmable supports 256 levels system reset
I/O PORTS	
USB	4x USB3.0 2x USB2.0
Serial	4x NMEA0183 (RS-422/485) 2x DB9(RS-232/422/485)
Ethernet	4x 2.5GbE LAN
Display	2x DP++ (Up to 4K each)
SIM Card Slot	1x SIM
DIO	8x isolated DIO
CAN Bus	2x CAN2.0B (optional)
EXPANSION SLOT	
Mini PCIe	1x Mini PCIe slot
M.2	1x M.2 Key M 2242/2280 Nvme 1x M.2 E-Key 2230 1x M.2 B-Key 3052
Antenna Hole	5x SMA-type
RF COMMUNICATION	
Wi-Fi	1x M.2 2230 E-Key (PCIe AxMac Wi-Fi 6)
Cellular	1x M.2 3052 B-Key (USB3.0)
Bluetooth	1x M.2 2230 E-Key (PCIe AxMac Wi-Fi 6)
GNSS	1x Mini PCIe (USB2.0)
AUDIO	
Audio	Mic in, line out
POWER	
Button	Yes
Remote Power On/Off	2-Pin phoenix terminal (3.81 mm)
DC Input	9 to 36 VDC (2-Pin Phoenix terminal 5.0 mm)
Power Mode	AT/ATX
OPERATING SYSTEM	
Windows	Windows 10 Windows 11
Linux	Ubuntu 22.04
MECHANICAL	
Dimensions (W x D x H mm)	216 x 164 x 82 mm (8.5 x 6.46 x 3.23 inches)
Weight (kg)	3.5kg (7.72 lbs)
Mounting	Wall-mount
Material	Aluminum alloy

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ENVIRONMENT	
Operating Temperature	-20°C to 60°C (-4 to 140°F) with SSD Airflow 0.7m/s
Storage Temperature	-40°C to 85°C (-40 to 185°F)
Relative Humidity	5% to 95%, non-condensing
Vibration	5-500Hz, 0.026 G ² /Hz, 2.16 Grms, X, Y, Z, 1 hour per axis
CERTIFICATION	
EMC	CE FCC IEC 60945/61162-1/2 IACS E10(Pending)

Dimensions



Ordering Information

Ref.	Description
XTB-254606D17305E	Intel® Celeron® 7305E/4LAN/6COM/6USB/2DP/8DIO/9~36V DC-IN
XTB-254606D1I313U	Intel® Core™ i3-1315UE/4LAN/6COM/6USB/2DP/8DIO/9~36V DC-IN
XTB-254606D1I513U	Intel® Core™ i5-1345UE/4LAN/6COM/6USB/2DP/8DIO/9~36V DC-IN
XTB-254606D1I713U	Intel® Core™ i7-1365UE/4LAN/6COM/6USB/2DP/8DIO/9~36V DC-IN