

Features

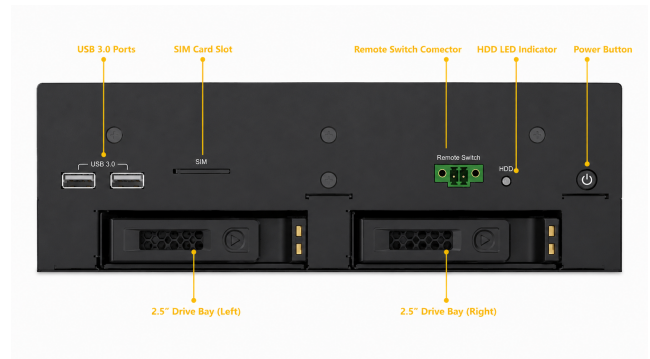
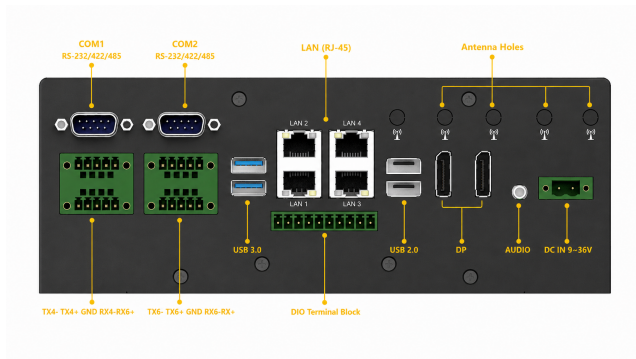
- Intel® 13Gen Core™ i3/i5/i7 Processor & Celeron® 7305E
- Rugged aluminum enclosure and fan less design
- 4x NMEA 0183 (RS-422/485)
- 8x isolated DIO ports
- 2x Hot-swap 2.5" SSD drive bays
- 2x DP, 6x USB, 2x 2.5GbE LAN + 2x 1GbE LAN, TPM 2.0
- IEC 60945/IACS E10/DNV compliant



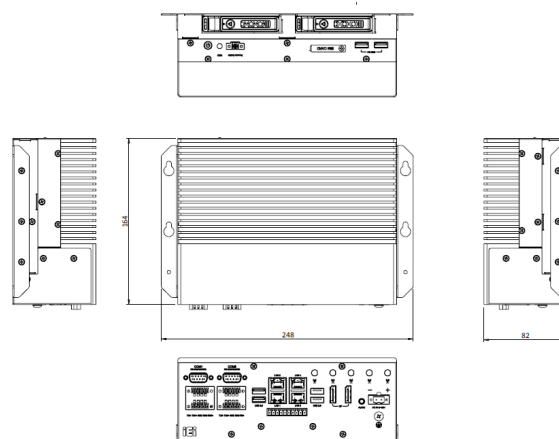
Specifications

MODEL NAME	MCS-DB001
CPU	Intel Celeron® 7305 Core™ i3-1315URE Core™ i5-1345URE Core™ i7-1365URE
Graphics Engine	Intel® UHD Graphics for 13th Gen Intel® Processor Intel® Iris® Xe Graphics eligible (Option by i3/i5/i7 dual DIMM)
Memory	2x SO-DIMM DDR5 1x 16GB pre-installed (Celeron/i3/i5) 1x 32GB pre-installed (i7)
Storage	2x Hot-swap 2.5" SATA III SSD 1x 256GB pre-installed (Celeron/i3/i5) 1x 512GB pre-installed (i7)
I/O Interface	4x USB3.2 GEN1 , 2x USB2.0 4x NMEA0183 (RS-422/485) 2x DB9(RS-232/422/485) 8x isolated DIO 2x 2.5GbE LAN (Intel® I226-V) 2x 1GE LAN (Realtek RTL8125B) 2x DP (Up to 4K each) 1x SIM slot
Expansion slots	1x M.2 Key M 2242/2280 PCIe 4.0 Nvme 1x M.2 2230 E-Key (option Wi-Fi/Bluetooth module) 1x M.2 3052 B-Key (option Cellular module) 1x Mini PCIe (option GNSS module)
Audio	Mic in, line out
OS Support	Windows 10, windows 11, Ubuntu22.04
Power Input	DC input
Operating Temperature	-20 to 60°C (-4 to 140°F) with SSD Airflow 0.7m/s
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95%, non-condensing
Diemension	200(W) x 100(H) x 157(D) mm
Certification	CE/FCC, IEC 60945, IACS E10,DNV in progress

Fully Integrated I/O



Dimensions (Unit: mm)



Ordering Information

PART NO.	DESCRIPTION
MCS-DB001-CE-R10	MCS-DB001 series, Intel Celeron -7305E , 1x16GB DDR5 SO-DIMM , Rugged fanless chassis, 4x NMEA 0183 (RS-422/485), 8 x isolated DIO ports ,2x removable 2.5" SSD bay (1x 256GB pre-installed)
MCS-DB001-I3-R10	MCS-DB001 series, Intel Core™ i3-1315URE , 1x16GB DDR5 SO-DIMM , Rugged fanless chassis, 4x NMEA 0183 (RS-422/485), 8 x isolated DIO ports ,2x removable 2.5" SSD bay (1x 256GB pre-installed)
MCS-DB001-I5-R10	MCS-DB001 series, Intel i5-1345URE , 1x16GB DDR5 SO-DIMM , Rugged fanless chassis, 4x NMEA 0183 (RS-422/485), 8 x isolated DIO ports ,2x removable 2.5" SSD bay (1x 256GB pre-installed)
MCS-DB001-I7-R10	MCS-DB001 series, Intel Core™ i7-1365URE , 1x16GB DDR5 SO-DIMM , Rugged fanless chassis, 4x NMEA 0183 (RS-422/485), 8 x isolated DIO ports ,2x removable 2.5" SSD bay (1x 512GB pre-installed)

Packing List

ITEM	PART NO	Q'TY
MCS-DB001		1
HDD tray key		2
Terminal Blocks		6

Options

ITEM	PART NO	DESCRIPTION
Power Adapter	63040-010120-300-RS	Adapter Power:Vin:90~264VAC:120W:Dim:75.6*151.3*25.4mm:Plug=6.5mm:Cable=1500mm:Vout:12VDC