

RUC-1000D

Half-Rack Rugged Fanless Edge Computer supports the Intel® Core™ Ultra 200S Series CPU (W880 Chipset), featuring up to six 2.5" SSD/HDD (RAID 0/1/5/10) and rich I/O.

Features

- Supports Intel® Core™ Ultra 200S Series CPU with W880 Chipset
- Supports up to Six 2.5" SSD Trays and RAID 0/1/5/10
- Rich I/O: 1x 10GbE, 2x 2.5GbE, 10x USB, 6x COM Ports
- 8V to 48V Wide-Range DC-in with Built-in Ignition Power Control
- Wide Operating Temperature Range: -25°C to 70°C



Specifications

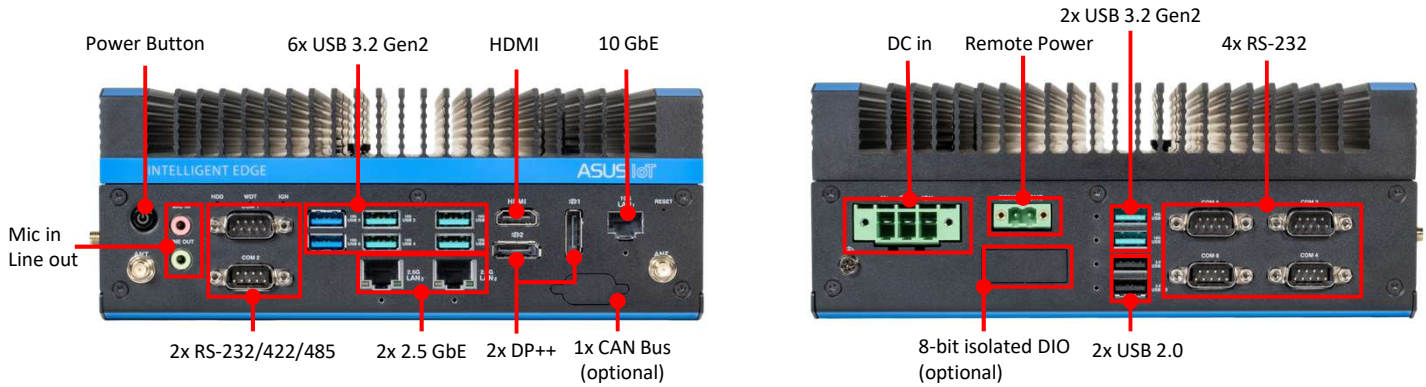
Processors	CPU	Intel® Core™ Ultra 9 285T	Intel® Core™ Ultra 7 265T	Intel® Core™ Ultra 5 245T
	TDP	35W	35W	35W
	# of Cores	24	20	14
	P-core Base Freq.	1.4GHz	1.5GHz	2.2GHz
System	Chipset	Intel® W880		
	Memory	2 x SO-DIMM (supports DDR5 ECC/non-ECC, up to 6400 MHz, max. 64GB)		
I/O Interfaces	Display	1 x HDMI, supports up to 4096 x 2160 @ 30 Hz 2 x DP++, supports up to 4096 x 2160 @ 60 Hz		
	Ethernet	1 x 10 GbE, RJ45 (AQC113) 2 x 2.5 GbE, RJ45 (Intel® i226-IT)		
	AMT	Supports Intel® vPro/ AMT		
	USB	8 x USB 3.2 Gen 2 (10Gbps) 2 x USB 2.0		
	COM	2 x RS-232/422/485 (COM1 with 5V/12V power support) 4 x RS-232		
	CAN Bus	1 x CAN Bus 2.0B (optional)		
	Audio	1 x Mic-in 1 x Line-out		
	DIO	8-bit isolated DIO(4-in/4-out, terminal block, optional)		
Storage	2.5" SATA	2 x 2.5" 4 x 2.5" hot-swappable SSD trays (with SSD expansion chassis, supports RAID 0/1/5/10)		
	M.2 M Key	1 x M.2 2280 M-key (PCIe Gen4x4)		
Expansion Slot	M.2 E Key	1 x M.2 2230 E-key (PCIex1/USB2.0)		
	M.2 B Key	1 x M.2 3042/3052 B-key with dual nano-SIM slot (PCIex1/USB 3.2 Gen1/USB2.0) 1 x M.2 3042/3052 B-key(PCIex1/USB 3.2 Gen1/USB2.0)		
Power	Power input	8V to 48 V DC-in, 3-pin terminal block (V+, GND, IGN) ¹		
	Remote switch	2-pin terminal block (Remote, GND)		
Mechanical	Mounting	Wall-mount		
	Dimensions	220 x 260 x 85mm 220 x 260 x 140mm (with SSD expansion chassis)		
	Weight	4.9 kg 7.3 kg (with SSD expansion chassis)		
Environment	Operating Temp.	35W CPU: -25° C to 70° C ^{2,3} 65W CPU: -25° C to 50° C ^{2,3}		
	Storage Temp.	-40° C to 85° C		
	Relative Humidity	10 to 95% (non-condensing)		
	EMC	CE, FCC, BSMI		
	Safety	CE-LVD, CB, BSMI		
	Vibration	Operating: MIL-STD 810H Method 514.8, Category 4		
	Shock	Operating: MIL-STD 810H Method 516.8, Procedure I, Table 516.6-II; 20 G 11ms		
Green	GA (RoHS)			

1. DC input (8V to 12V) is for light-load power on or operation only.
2. For wide-temperature applications, industrial memory and storage are required.
3. No thermal throttling occurs under 100% CPU loading (PassMark BurnInTest); ambient air flow is required.

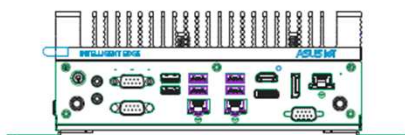
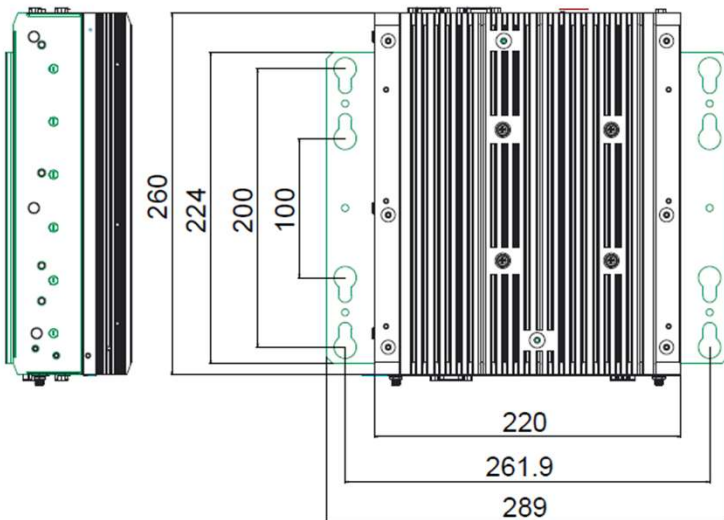
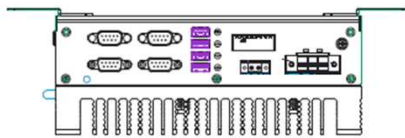
Specifications (Cont.)

Security	TPM	dTPM v2.0 (onboard)
Others	Watch dog timer	Supported
	OS	Windows® 11 IoT Enterprise (64-bit) / Linux by Project support

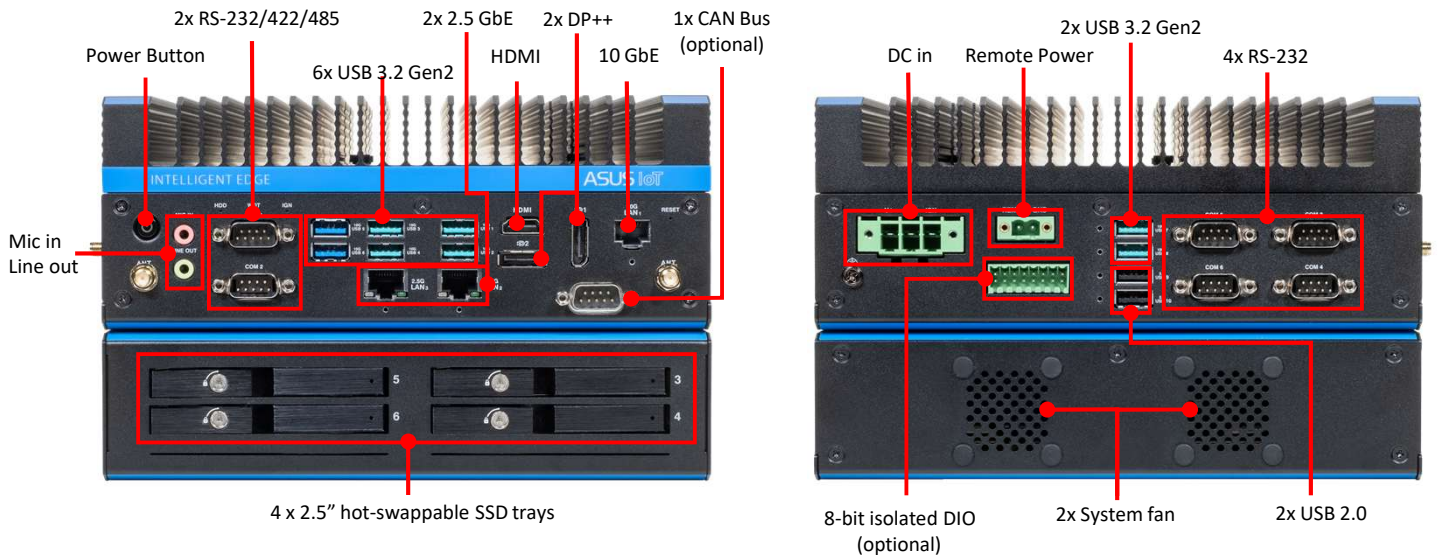
Appearance



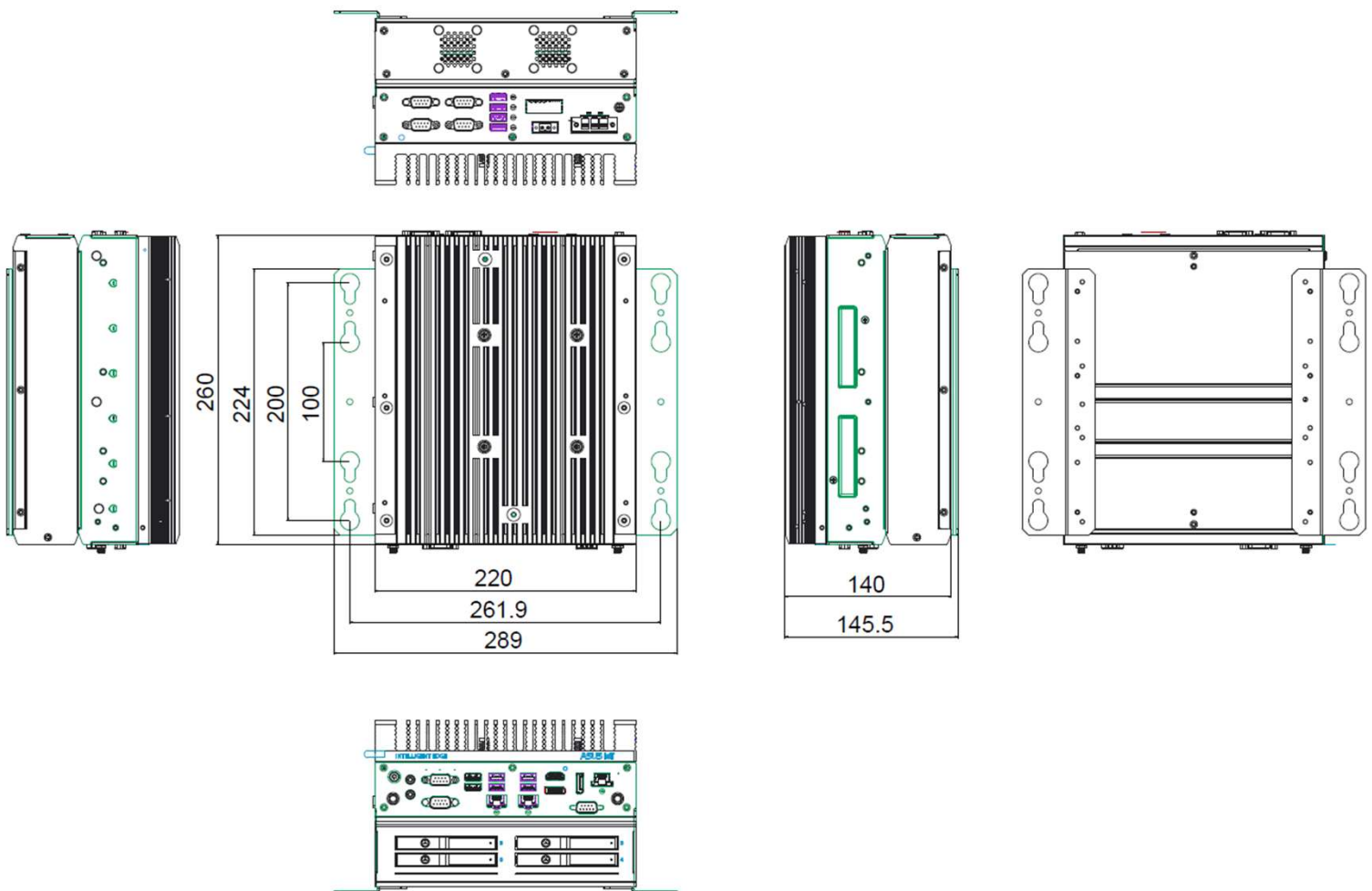
Dimensions (mm)



Appearance with SSD Expansion Chassis



Dimensions with SSD Expansion Chassis (mm)



Ordering Information:

CPU	Chipset	SO-DIMM	LAN	2.5" SATA	COM	USB	OP Temperature
Intel® Core™ Ultra 200S	W880	2	3	2	6	10	-25~60°C/ 0~40°C
Intel® Core™ Ultra 200S	W880	2	3	6 (with SSD chassis)	6	10	-25~60°C/ 0~40°C

* Please check with your importer or integrator for system level certification.

Packing List:

Item	Qty
3-pin power terminal blocks	1
2-pin remote power terminal block	1
Wall mount kit	2
Wall mount screw pack	1
Anti shock & vibration damper pack	1
SSD screw pack	2

Optional Accessories:

Item	Description
ADAPTER	
	Power adapter, 330W 24V, input voltage 100 to 264VAC, output voltage 24VDC with 13.75A DC load, 0 to 40°C operating temperature
POWER CORD	
	Power cord with United States (US) plug
	Power cord with Europe (EU) plug
	Power cord with China (CN) plug
	Power cord with Australia (AU) plug
	Power cord with United Kingdom (UK) plug
	Power cord with Korea (KR) plug
	Power cord with Taiwan (TW) plug