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4,654,520	8,078,511
8,901,705	4,346,501
6,805,210	6,688,570



IV320-TM

Full IP65 Rugged MXM AI Edge Computer with Intel® 11th Gen. Tiger Lake-H Xeon® W-11865MRE



- Full IP65 sealed enclosure for harsh, wet and dusty environments.
- Intel® 11th Gen. Tiger Lake-H Xeon® W-11865MRE
- 2 x SO-DIMM up to 64GB DDR4 (32GB per DIMM)
- supports NVIDIA® Quadro RTX A2000
- Rugged waterproof M12 connectors
- IP65 2 x 2.5" SATA SSD Easy Swap Tray
- Extended Operating Temperature -20 to +60°C
- Wide range DC-Input 12-36V DC
- MIL-STD 810 compliant

Specifications

System

CPU	Intel® 11th Tiger Lake-H Xeon W <ul style="list-style-type: none">• W-11865MRE, 2.6/4.7 GHz, 24MB, 45W, 8C/16T• W-11865MLE, 1.5/4.5 GHz, 24MB, 25W, 8C/16T Intel® Core™ <ul style="list-style-type: none">• i7-11850HE, 2.6/4.7 GHz, 24MB, 45W, 8C/16T
Memory type	Dual Channel DDR4 2666 MHz, 64GB (32GB per DIMM)
CHIPSET	Intel® QM370 Chipset
GPU	NVIDIA® Quadro RTX MXM A2000 - (2560 CUDA Cores)
GRAPHICS	Intel® UHD Graphics 630/P630
Expansion Slot	2x Full-size mini PCIe (1 with mSATA supported) -1 with mSATA/USB2.0/PCIeX1 support -1 with SIM/USB2.0/PCIeX1 support -1x 2280 M key (SATA only)

Display

Display	2x DP outputs from COM Express®, 4x DP outputs from GPU, (6 total) 1x VGA from COM Express®
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Storage

SATA	2x 2.5" SSD, Hot Swappable SSD/HDD slot
M.2	1x 2280 M key (SATA only)

Ethernet

Ethernet	2x 10/100/1000 Ethernet Ports
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Front I/O

X1	1x VGA , with M12 waterproof connector
X2,X3	(Each) 1x Giga LAN , M12 waterproof connector
X4	1x USB , with M12 waterproof connector
X5	1x USB , with M12 waterproof connector
X6	1x COM1/RS-232/422/485(Default RS-232), with M12 waterproof connector
X7	(reserved)
switch	1x IP65 power button
SSD	2x 2.5" Easy swap SSD Tray

Rear I/O

DC-in	DC-in (12~36V)
others	Antenna

Power

Power input	12 ~36V
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Operating System

OS	Windows® 10 64-bit / Linux (support by request)
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Physical

Dimension	250(W) x 325 (L) x 100 (H)mm
Weight	(TBD)
Chassis	Aluminum Ally
Heatsink	Heatsink Aluminum Alloy, Corrosion Resistant

Environmental

Green Product	RoHS, WEEE compliance
Operating Temp.	-20 to 55°C
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing

MIL-STD-810 Specifications (Operating)

Method 502.5 Procedure 2	Low Temperature	-20°C, 4 hours, ±3°C
Method 501.5 Procedure 2	High Temperature	+55°C, 4 hours, ±3°C
Method 507.5	Humidity	85%-95% RH without condensation, 24 hours/ cycle, conduct 10 cycles.
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.
Method 516.6	Shock	20 Grms, 11ms, 3 axes.

MIL-STD-810 Specifications (None-Operating)

Method 502.5 Procedure 1	Low Temperature Storage	-33°C, 4 hours, change rate: ≤20°C/ Hour -15°C, 72hours (By request)
Method 501.5 Procedure 1	High Temperature Storage	+71°C, 4 hours, change rate: ≤20°C/ Hour +63°C, 240 hours (By request)
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.
Method 516.6	Shock	20 Grms, 11ms, 3 axes.

Ordering Information

Model	IV320-TH-A45	IV320-TH-M10	IV320-TH-A20
CPU	W-11865MRE	W-11865MLE	i7-11850HE
GPU	MXM A4500	MXM G1050Ti	MXM A2000
Memory	DDR4 Up to 64GB		
Storage	2x 2.5" SATA III SSD		
I/O			
USB	2x USB3.0		
LAN	2x GbE LAN		
COM	1x RS232/422/485		
DP	1x VGA/DP		
Power	9V~36V DC-IN		

Dimensions

