

HORUS430-X3 GPU Accelerated Computer for Defense Applications



- Intel® 9th Coffee-Lake i7-9850HE
- NVIDIA MXM Graphic Engine support up to RTX3000
- Dual 10 GbE
- DDR4 Up to 64GB (ECC for Options)
- 2 x LAN, 4 x USB, 2 x DVI
- Rugged MIL-DTL-38999 connectors
- MIL-STD-810G/461/1275, 18V-36V DC-Input
- Operating Temperature -20°C to +55°C



Introduction

Artificial Intelligence (AI) is accelerating the tactical capability of the military more than ever before. Many new combat and weapons systems utilize embedded AI, making them more efficient and less dependent on human operation.

Furthermore, **SWaP (Reduced Size, Weight, and Power)** requirements are also impacting artificial intelligence design. Now and in the future, many military systems will be susceptible to SWaP-constraints, which challenge the assumptions of today's AI solutions.

Specifications			
CPU	i7-9850H 9th generation CPU (6 Core, 2.6 GHz Up to 4.60 GHz)		
GPU	NVIDIA Quadro RTX3000 MXM (CUDA cores:1920; 6GB GDDR6)		
Memory	DDR4 64GB		
Ethernet	1x Intel® i210IT Gigabit Ethernet 1x Intel® i219LM Gigabit Ethernet		
Storage	2x 2TB SSD (Internal) Easy swap HDD/SSD Tray		
Power	MIL-STD 461/1275 EMI Filter 18V~36V		
MIL-STD Connectors	2x LAN	2 x MIL-38999 10 Pin Connector	TV07RW-13-98S (10PIN)
	2x 10GbE	2x M12 8 Pin Connector	M12 X CODE P507PAN-M12FFX8S11(8PIN)
	1x COM	1 x MIL-38999 10 Pin Connector	TV07RW-13-98S(10PIN)
	4x USB 2.0	1 x MIL-38999 22Pin Connector	TV07RW-13-S (22PIN)
	1x USB3.1		
	2x HDMI	2 x MIL-38999 22Pin Connector	TV07RW-13-S (22PIN)
	DC Power	1 x MIL-38999 4Pin Connector	TV07RW-11-54P (4PIN)
Operation Temp	-20°C to 55°C		
Storage Temperature	-40°C to 85°C		
Environmental	MIL-STD 810G		
Dimension (W x D x H)	418 x 483 x 88 mm		
Weight	~10.6 Kg		
Chassis	Aluminum Alloy, Corrosion Resistant.		
Cooling	Natural Passive Convection / Conduction. No Moving Parts		
Ingress Protection	IP64		