



LAND



SEA



AIR

# HORUS430-K1

GPGPU-BASED RADAR SUBSYSTEM BY  
NVIDIA GTX1080 AND INTEL I7-9850HE



- Intel® Core™ i7-9850HE Processor
- NVIDIA MXM Graphic Engine support up to GTX1080 (8GB-GDDR5X, CUDA 2560)
- Extreme Temperature -20~+55 degree
- MIL-STD 461/1275 EMI Filter 18V~36V
- DTL38999 Military Connector



# Specifications

## SYSTEM

CPU	Intel® Core™ i7-9850HE (6 Cores, 2.70GHz, Up to 4.40GHz)
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Memory type	2 x DDR4 up to 64GB
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## DISPLAY

GPU	NVIDIA MXM Graphic Card support up to GTX1080 (8GB-GDDR5X, CUDA 2560)
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## STORAGE

HDD/SSD	2 x 2TB SSD 2.5" Easy swap HDD/SSD Tray
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## ETHERNET

Ethernet	1 x Intel® i210IT Gigabit Ethernet 1 x Intel® i219LM Gigabit Ethernet
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## REAR I/O

X1	1 x USB x 4 MIL-38999 22Pin connector (Amphenol TV07RW-13-S)
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X2, X3	2 x 10G LAN M12 8Pin connector (X CODE Cat6)
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X4, X5	2 x 1G LAN MIL-38999 10Pin connector (Amphenol TV07RW-13-98S)
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X6	1 x RS232 MIL-38999 10Pin connector (Amphenol TV07RW-13-98S)
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X7, X8	2 x DVI MIL-38999 22Pin connector (Amphenol TV07RW-13-S)
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## FRONT I/O

Storage Device	2 x 2.5" Easy swap HDD/SSD Tray
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Power Button	1 x Power Button with LED backlight
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Ground Screw	1 x M4 Screw
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## OS SUPPORT LIST

Windows	Windows 10
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Linux	Fedora 20 、 Ubuntu 13.04 、 Ubuntu 13.10 、 Ubuntu 14.04
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## MECHANICAL

Power Requirement	12V DC-IN
Dimension	422 x 400 x 88 mm (W x D x H)
Weight	14 KG
Ingress Protection	IP54 (IP65 Optional)
Operating Temp.	-20°C to 55°C
Storage Temp.	-40°C to 85°C
Relative Humidity	5% to 95%, non-condensing

## ENVIRONMENT

MIL-STD-810F Test	Operating Tests		
	Low Temperature	Method 502.4 Procedure 2	-20°C (Cold Boot) -40°C (Continue Operating)
	High Temperature	Method 501.4 Procedure 2	+55°C
	Humidity	Method 507.4	5 x 48 hour cycles
	Vibration	Method 514.5 Category 4	10—500Hz 1.04Grms
	Shock	Method 516.5	40G 11mSec TPS 3 axis
	Altitude	Method 500.5 Procedure 2	-1,000m to +12,000m
	Non-Operating Tests		
	Shock	Method 516.5	40G 11ms TPS 3 axis
	Low Temperature Storage	Method 501.4	-40°C
	High Temperature Storage	Method 502.4 Procedure 1	+75°C
	Vibration	Method 514.5 Category 24 fig 514.5C-17	20 to 1000Hz @ 0.02g <sup>2</sup> /Hz falling @ -6dB to 2000Hz
	Altitude	Method 500.5 Procedure 2	-1,000m to +12,000m
EMC	CE, FCC compliant		
Green Product	RoHS, WEEE compliance		