VCX700-MTH

Intel Core Ultra Processor 125U or 155U
Ruggedized Fanless in-vehicle system

KEY FEATURES

Ultra Rugged Design
IP67-rated, comply with military criteria of vibration and shock test

Wide Temperature
Operating temperature: -40° to 70° C

Wide Range Power Input
9~36Vdc power input with ACC/IGN function

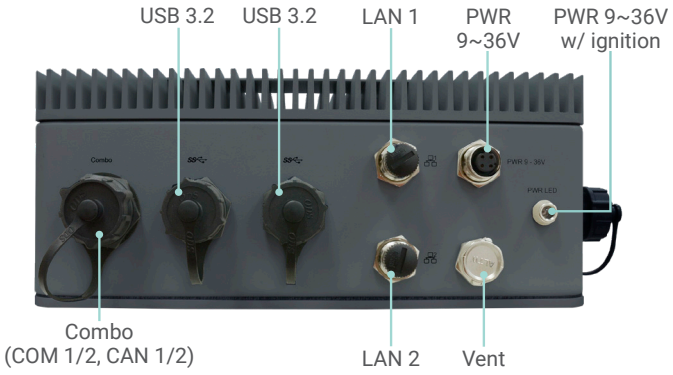
9-asix IMU Sensor
3 Accelerometer + 3 Gyroscope + 3 Magnetometer

Hybrid Connectivity
Wifi & LTE/5G, 2 x 2.5GbE

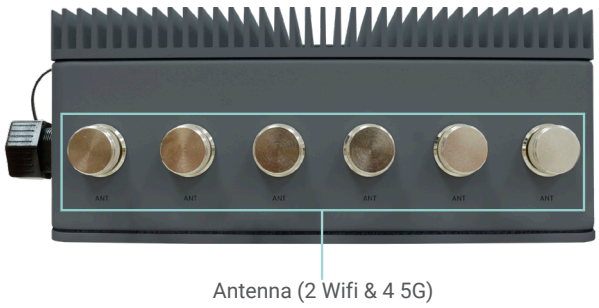
FC CE RoHS

intel IoT Solutions Alliance

PANEL



Bottom View

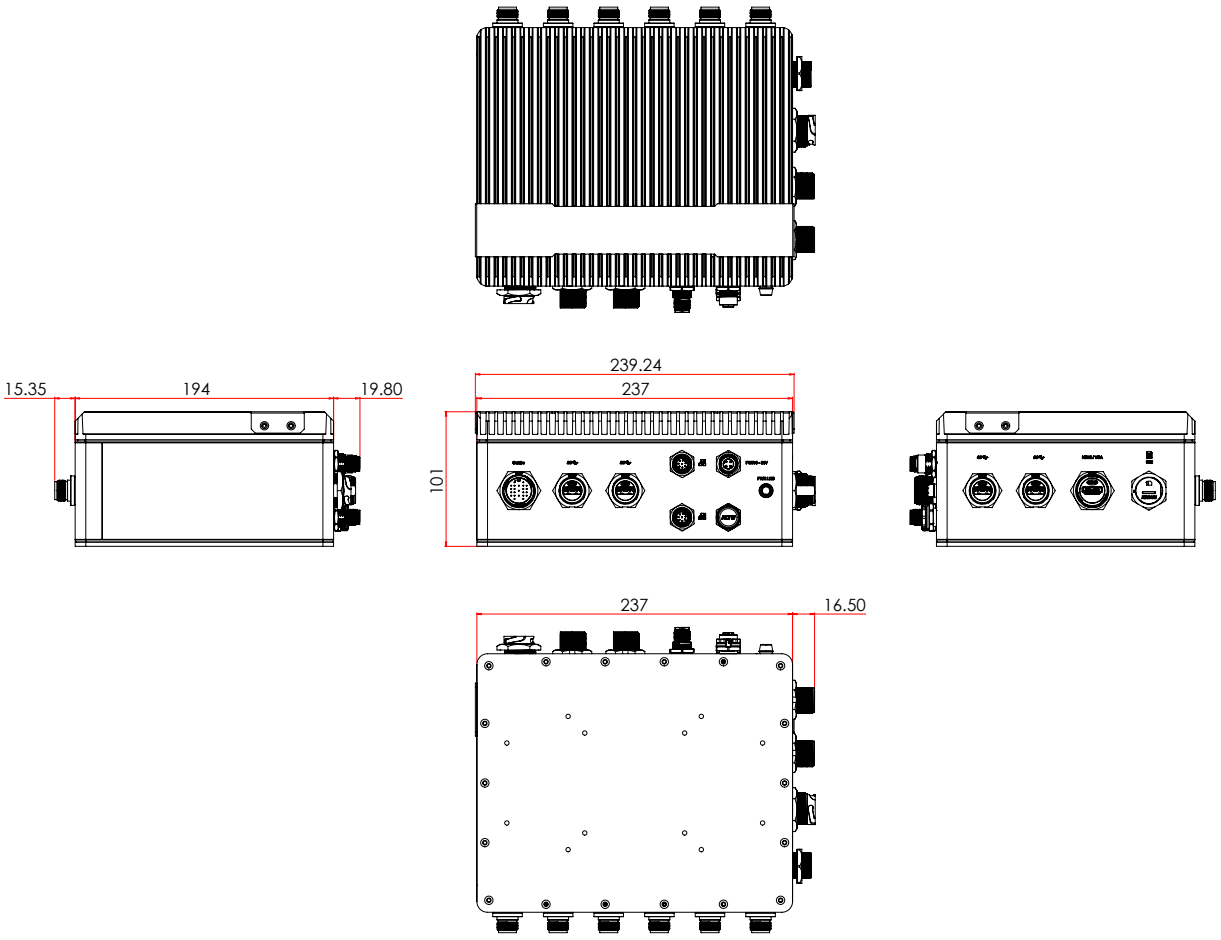


Top View

Right View

Left View

DIMENSIONS



SPECIFICATION

SYSTEM	**Processor**	Intel® Core™ Ultra 7/5 Processors, TDP 15W Intel® Core™ Ultra 7 155U, 12C, 12M Cache, 1.7GHz (4.8GHz) Intel® Core™ Ultra 5 125U, 12C, 12M Cache, 1.3GHz (4.3GHz)
	Memory	Dual Channel LPDDR5/x 6400MHz memory down Up to 32GB (64GB per request)
	BIOS	AMI SPI 256Mbit
GRAPHICS	**Controller**	Intel® Arc™ Graphics
	Feature	OpenGL 4.6, Direct X 12.2, OpenCL 3.0 HW Decode: HEVC, VP9, AV1, AVC HW Encode: HEVC, VP9,AV1, AVC
	Display	1 x HDMI 1.4b HDMI: resolution up to 4096x2160@24Hz
STORAGE	**M.2 SSD (M Key)**	256GB Available(128GB/512GB by project support)
EXPANSION	**Interface**	1 x M.2 3052 B key (PCIe x1 & USB3.0/2.0)(for LTE or 5G module, optional) 1 x M.2 2230 E Key (PCIe x1 & USB2.0)(for Wi-Fi module, optional)
ETHERNET	**Controller**	2 x Intel® i226IT (10/100/1000/2500Mbps)
LED	**Indicators**	1 x Power Status LED
BOTTOM I/O	**Ethernet / PoE**	LAN1/LAN2 2.5GbE, M12 X-coded
	USB	2 x USB 3.2 (up to 10W)
	Combo	2 x RS232 and 2 x CAN FD
	Vent	1 x Vent
	Power	1 x 9~36V DC-IN with ignition control
TOP I/O	**Antenna Hole**	6 x Antenna (for Wi-Fi, LTE, 5G)
SIDE I/O	**Display**	1 x HDMI
	SIM slot	1 x SIM card slot
	USB	2 x USB 3.2 (up to 10W)
WATCHDOG TIMER	**Output & Interval**	System Reset, Programmable via Software from 1 to 255 Seconds
POWER	**Type**	DC-in 9~36V with ignition control
	Connector	M12 D-code
OS SUPPORT	**Microsoft**	Windows 10 IoT Enterprise 64-bit Windows 11 IoT Enterprise LTSC 2024
	Linux	Linux
MECHANISM	**Mounting**	Wall mount
	Dimensions (W x H x D)	239.24 x 194 x 101 mm
	Weight	3.62 kg
ENVIRONMENT	**Operating Temperature**	-20 to 70°C -40 to 70°C (By request)
	Storage Temperature	-40 to 85°C
	Relative Humidity	5 to 95% RH (non-condensing)
	Shock	Operation shock test: Half Sine Wave 15G, 11ms, 3 Shock Per Axis
	Vibration	Operation Vibration test: MIL-STD-810G 514.6C-2, Figure 514.6C-2
	Certifications	CE, FCC class A, ROHS
	Construction	IP67 enclosure

PACKING LIST

· VCX700-MTH system unit
· 1 COMBO cable (for COM & CANBUS)
· 2 LAN cable
· 6 Dust cover (for antenna connector)
· 1 DC input cable

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