



AV710-GU

MILITARY JETSON AGX ORIN COUNTER UAV
COMPUTER



- Counter UAV visulation Platform with Multi-Sensors Data Fusion
- NVIDIA Jetson AGX Orin 32G/64G LPDDR5 DRAM
- Data Fusion: 4xCH 3G-SDI NVENC H.264 Low Latency (options)
- Data Input: 1x10G SFP+ 2xLAN , 8xCH GMSL 2.0 (options)
- Connectivity: CAN Bus+1x RS232/422/485 Support
- IP65 Classified with M12/DTL38999 Connector (options)
- DC-DC 12V~30V, Options 18V~36V with MIL-461 EMI Filter
- MIL-STD-810 Vibration Method 514.6:

 Acceleration: 5.0 Grms
- MIL-STD-810 Vibration Method 514.6: ©PSD: 0.01257 g2/Hz
- MIL-STD-810 Shock Method 516.6: @Wave Form: Half Shine Wave
- MIL-STD-810 Shock Method 516.6: ©Acceleration: 40G
- Extended Temperature -20°C to +55°C
- Size: 250x325x100mm

Specifications

SYSTEM

High performance	Ampere GPU + Arm Cortex-A78AE CPU + 64GB LPDDR5 + 64GB eMMC 5.1				
Processor	Ampere GPU + Arm Cortex-A78AE CPU + 32GB LPDDR5 + 64GB eMMC 5.1				
GPU	64GB : Two graphics processing cluster (GPC) eight texture processing				
	clusters (TPC) 2048 NVIDIA® CUDA® cores 64 Tensor cores Ray-Tracing				
	cores 170 Sparse TOPS Maximum Operating Frequency: 1.3 GHz				
	32GB : Two graphics processing cluster (GPC) seven texture processing				
	clusters (TPC) 1792 NVIDIA® CUDA® cores 56 Tensor cores Ray-Tracing				
	cores 108 Sparse TOPS Maximum Operating Frequency: 939 MHz				
Al Performance	64GB: Up to 275 Sparse TOPS (INT8)				
	32GB: Up to 200 Sparse TOPs (INT8)				
Memory Type	Jetson AGX Orin 64GB: 64GB 256-bit LPDDR5 DRAM				
	Jetson AGX Orin 32GB: 32GB 256-bit LPDDR5 DRAM				
EXPANSION SL					
Expansion Slot	1x M.2 Key-B, 1x SIM, 1x MicroSD, 1x 5V Fan				
	1x I2C, 2x UART, 1x I2S, 2x SPI, 1x CAN				
	1x Camera Connector (6 CSI camera support)				
DISPLAY					
Graphics Interfaces	1x HDMI 2.0 (max resolution 3840x2160)				
STORAGE					
M.2	1x M.2 M-Key 256GB SSD Slot				
OS	64 GB eMMC 5.1 Flash				
ETHERNET					
	2x GLAN				
Controller	1x 10G (SFP+ Based)				
FRONT I/O					
Power-IN	DC 12-30 VDC				
X1	1x 1GbE LAN with M12 connector				
X2	1x 1GbE LAN with M12 connector				
X3	1x RS232 with M12 connector				
X4	1x USB3.0 with M20 connector				
X5	1x HDMI with M20 connector				

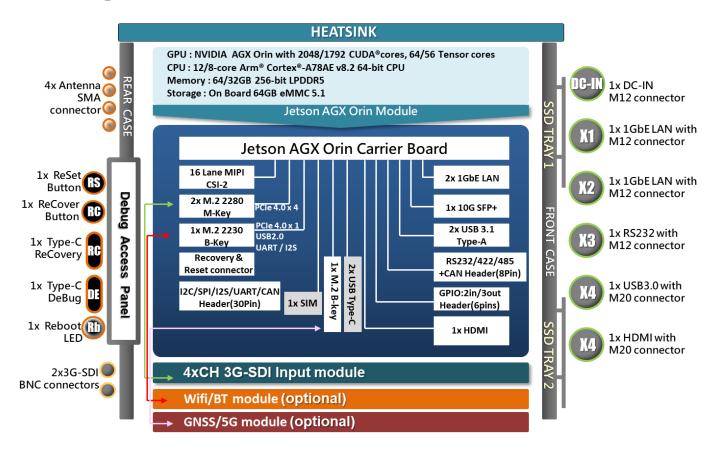
REAR I/O

Antenna	4G/5G/LTE Antenna with SMA connector				
Ground Screw	1x				
Debug Access Panel	1x Reset Button				
	1x Recover Button				
	1x USB Type-C for Debug				
	1x USB Type-C for Recovery				
	1x Reboot LED				
X7	2x 3G-SDI with BNC				
Power Requir	EMENT				
Power Input	12V~30V; Options 18V~36V with MIL-461 EMI Filter				
OPERATING SYS	STEM				
Operating System	Ubuntu 20.04 with JetPack 6.0				
PHYSICAL					
Dimension	250 x 325 x 100 mm(W x D x H)				
Weight	TBD				
Chassis	Aluminum AL6061				
Heatsink	Aluminum Alloy, Corrosion Resistant.				
Finish	Anodic aluminum oxide (Color).				
Cooling	Natural Passive Convection/Conduction. No Moving Parts				
Ingress Protection	IP65				
ENVIRONMENTA	L				
MIL-STD-461 (Options	s)				
EMC	CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 1.5 MHz - 5 GHz, 50 V/m equal for all frequencies				
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program.				
Operating Temp.	-20 to 55°C (ambient with air flow)				
Storage Temp.	-40 to 85°C				
Relative Humidity	5% to 95%, non-condensing.				

Ordering Information

		AV710-CU-2L4S	AV710-CU-3L4S	AV710-CU-3LP	AV710-CU-2L2S	AV710-CU-3L2S
Computing	CPU GPU	AGX Orin 32GB	AGX Orin 64GB	AGX Orin 64GB	AGX Orin 32GB	AGX Orin 64GB
	RAM	32GB	64GB	64GB	32GB	64GB
	Storage-1	eMMC 64GB				
	Storage-2	2TB	2TB	8—	2TB	2TB
	2CH 3G-SDI-in	YES	YES		YES	YES
	2CH HD-SDI-in	YES	YES	-	_	122
Databaset	1x10G(SFP+)		YES	YES	_	YES
Data Input	2xLAN	YES	YES	YES	YES	YES
	2xPOE (30W)			YES	==	1500
	1xDVI-I		=		=	122
Data Output	DP			Į.		<u> </u>
	HDMI	YES	YES	YES	YES	YES
	DVI		-	<u></u>		122
Communication	4G/5G LTE		YES	YES	YES	YES
Connectivity	WiFi		YES	YES	YES	YES
\$1000	GPS	::	YES	YES		YES
	1x10G(SFP+)	·—·	YES	YES	_	YES

Block Diagram



Dimension

Appearance



