



nv300-



IP65 NVIDIA® AGX ORIN MILITARY COMPUTER



- Ultra Short Depth 2U Half Rugged Computer
- NVIDIA Jetson AGX Orin 64G LPDDR5 DRAM
- 1x LAN+2x USB2.0+2x RS422+1x HDMI
- 2x 3G-SDI in
- IP65 Classified, Color: RAL8025 (Pale Brown)
- DC-IN 12V~30V or 9V~36V with Heater solution
- Operating Temperature: -20°C ~ 50°C / -32°C ~ 50°C(option)
- Size: 250x325x100mm

Specifications

SYSTEM

High performance Processor	Ampere GPU + Arm Cortex-A78AE CPU + 64GB 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
AI Performance	64GB: Up to 275 Sparse TOPS (INT8)
Memory Type	Jetson AGX Orin 64GB: 64GB 256-bit LPDDR5 DRAM

EXPANSION SLOT

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)
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DISPLAY

Graphics Interfaces	1x HDMI 2.0 (max resolution 3840x2160)
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STORAGE

M.2	1x M.2 M-Key 256GB SSD Slot
	64 GB eMMC 5.1 Flash

ETHERNET

Controller	2x GLAN 1x 10G (SFP+ Based)
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FRONT I/O

X1	DC-IN 12V~30V or 9V~36V with Heater solution
X2	1x HDMI with D38999
X3	1x USB2.0 with D38999
X4	1x GbE LAN with D38999
X5	1x USB2.0 + RS422 with D38999

REAR I/O

Ground Screw	1
X6	2x 3G-SDI in with D38999

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	1x RS422 with D38999

POWER REQUIREMENT

Power Input	12V~30V or 9V~36V with Heater Solution
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OPERATING SYSTEM

Operating System	Ubuntu 20.04 with JetPack 6.0
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THERMAL -HEATER SOLUTION (OPTION)

Heater	63mm x 63mm (L x W); 40.7W, 12VDC-IN
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PHYSICAL

Dimension	250 x 325 x 100 mm (W x D x H)
Weight	8.65kg
Operating Temp.	-20°C ~ 50°C / -32°C ~ 50°C (with Heater solution)
Storage Temp.	-40°C ~ 85°C
Chassis	Aluminum AL6061
Heatsink	Aluminum Alloy, Corrosion Resistant.
Finish	Anodic aluminum oxide, Color: RAL8025 (Pale Brown)
Cooling	Natural Passive Convection/Conduction. No Moving Parts
Ingress Protection	IP65

ENVIRONMENTAL

MIL-STD-461 (Options)	
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.
Relative Humidity	5% to 95%, non-condensing.

Ordering Information

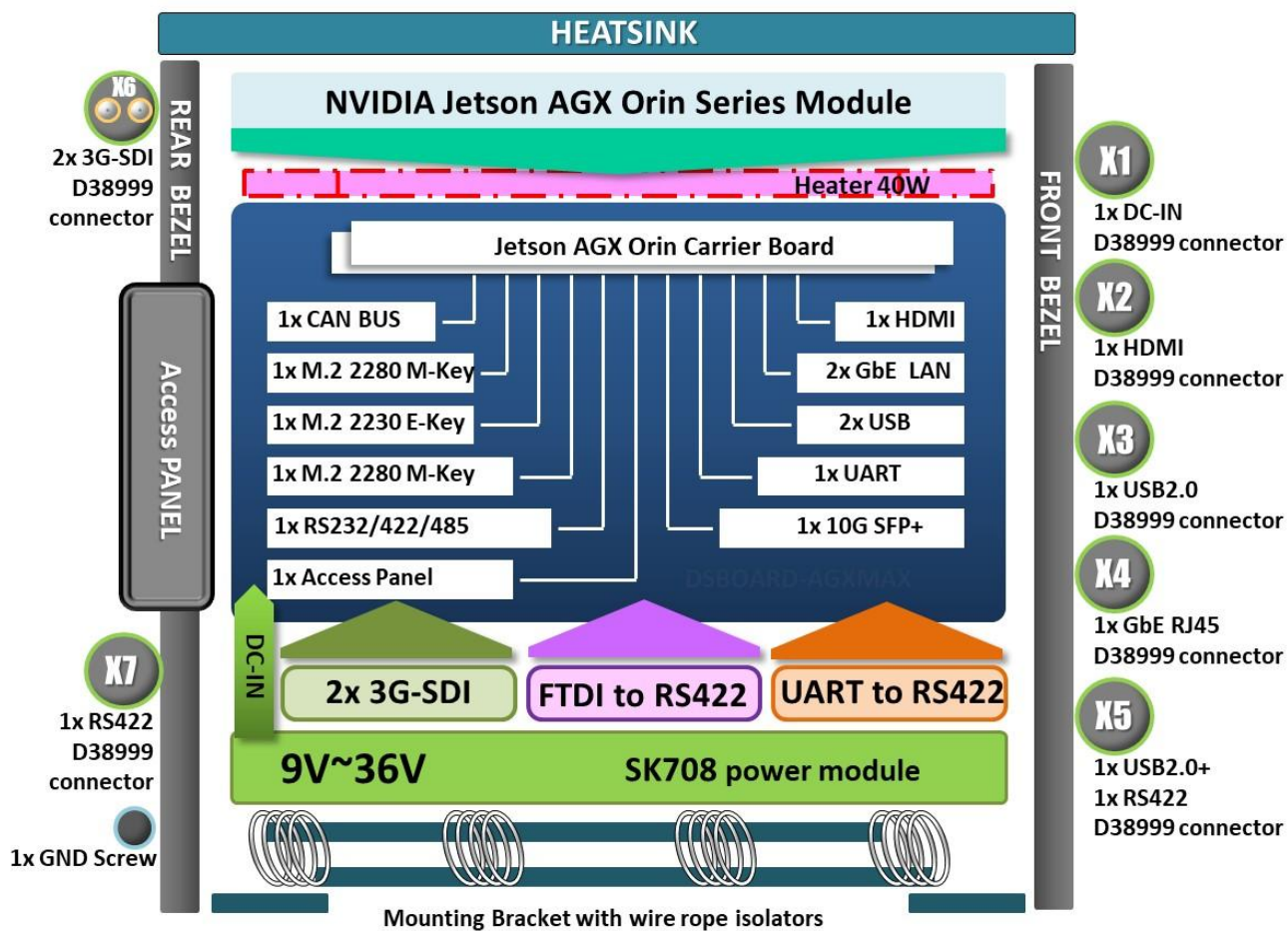
NV300-D(1LS64B)

IP65 NVIDIA® AGX Orin Military Computer, Jetson AGX Orin 64GB, 12V to 30V DC-IN, Extended Temp. -20 to 50°C, 1x M.2 256GB SSD, 2x 3G-SDI, Color: RAL8025.

NV300-DH(1LS64BH) with Heater

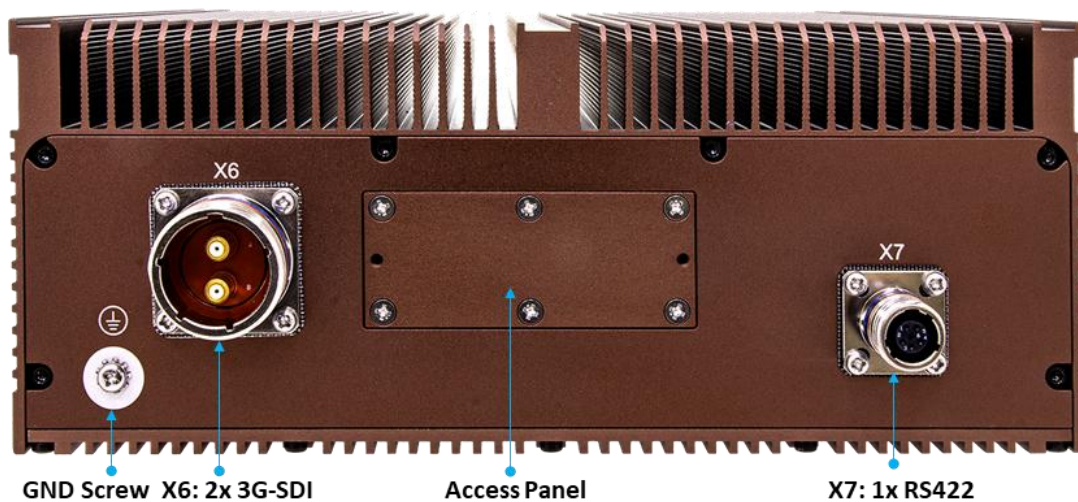
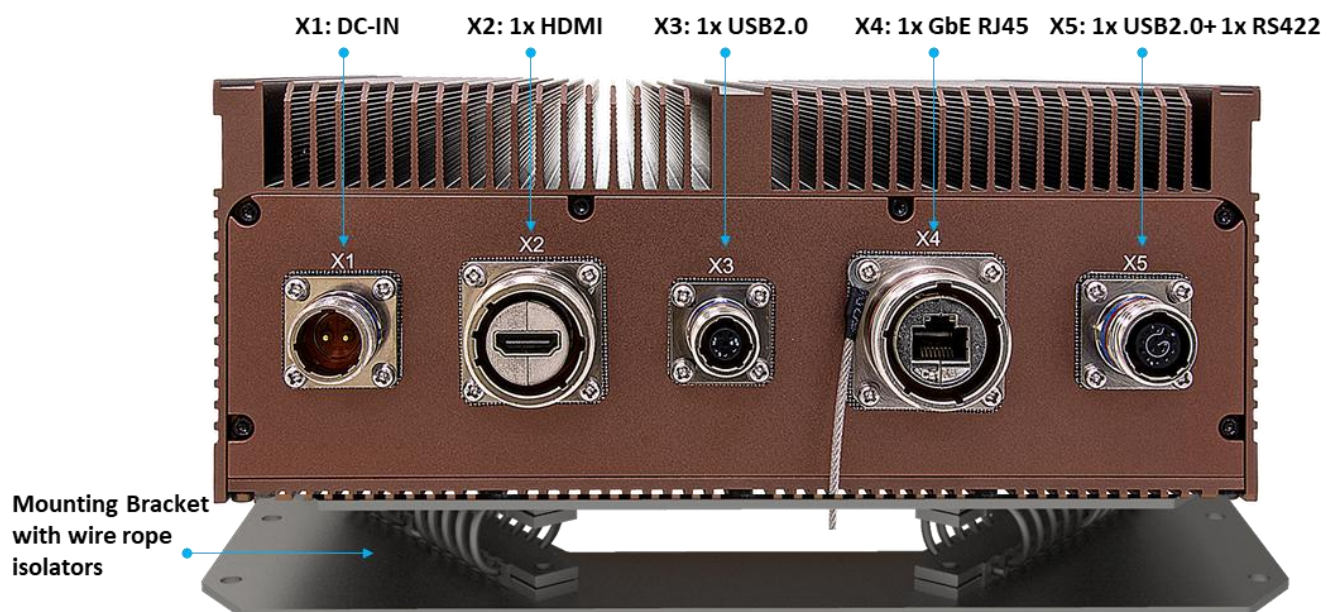
IP65 NVIDIA® AGX Orin Military Computer, Jetson AGX Orin 64GB, 9V to 36V DC-IN, Extended Temp. -32 to 50°C, with Heater solution, 1x M.2 256GB SSD, 2x 3G-SDI, Color: RAL8025.

Block Diagram



Appearance





Dimension

