

525

60,000

21,000,000

4,654,520 8,078,511  
8,901,705 4,346,501  
6,805,210 6,688,570



# AV710-X4-32045

Military Jetson AGX Orin IP65 Rugged Computer



- NVIDIA® Jetson AGX Orin 32G LPDDR5 with 1792 CUDA and 56 Tensor Cores
- Support 2x 1GbE LAN, 1x USB3.0, 1x HDMI
- On board 64GB eMMC 5.1
- IP65 Classified
- Temperature -20 to +55°C
- DC-IN 12V~32V
- 4CH 3G-SDI Input
- Dimension: 250 x 220 x 100mm (W x D x H)

# Specifications

## System

AI Performance	200 TOPS
CPU module	Ampere GPU + Arm Cortex-A78AE CPU + 32GB LPDDR5 + 64GB eMMC 5.1
GPU	NVIDIA Ampere architecture with 1792 NVIDIA® CUDA® cores and 56 Tensor Cores, max freq. 930MHz
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 2MB L2 + 4MB L3, max freq. 2.2GHz
Memory	32GB 256-bit LPDDR5, 204.8 GB/s
Storage	64GB eMMC 5.1 1x PCIe x4.0 M.2 2280 M-Key up to 2TB
Expansion Slot	2x M.2 2280 M key (PCIe x4) 1x M.2 3042/3052 B key 1x M.2 2030 E key 2x UART 1x I2S 1x I2C 2x SPI 1x CAN 1x Micro SD 1x SIM 4x 3G-SDI Input

## Display

Display	1x HDMI 2.0(max resolution 3840x2160)
---------	---------------------------------------

## Front I/O

Power In	12V~32V DC-IN with M12 waterproof connector
X1	1x 1GbE LAN with M12 waterproof connector
X2	1x 1GbE LAN with M12 waterproof connector
X3	1x USB3.0, with M20 waterproof connector
X4	1x HDMI with M20 connector
BNC	4x Channel 3G-SDI with BNC connector

## Rear I/O

GND	1x Grounding Screw
Debug Access Panel	1x Reset Button 1x Recover Button 1x USB Type-C for Debug 1x USB Type-C for Recovery 1x Reboot LED

## Operating System

OS	NVIDIA Jetpack™ 5.x(5.02/5.1)
----	-------------------------------

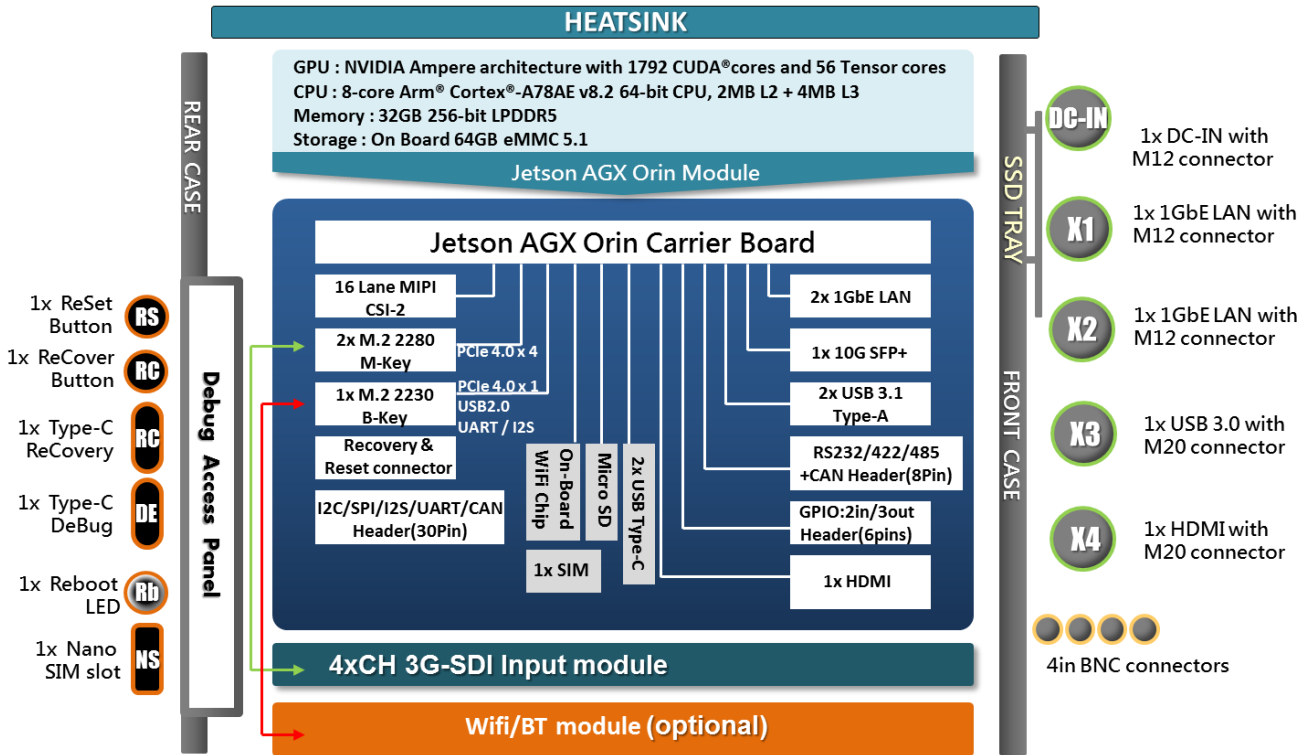
## Physical

Dimension	250(W) x 220 (D) x 100 (H)mm
Weight	3.3Kg

## Environmental

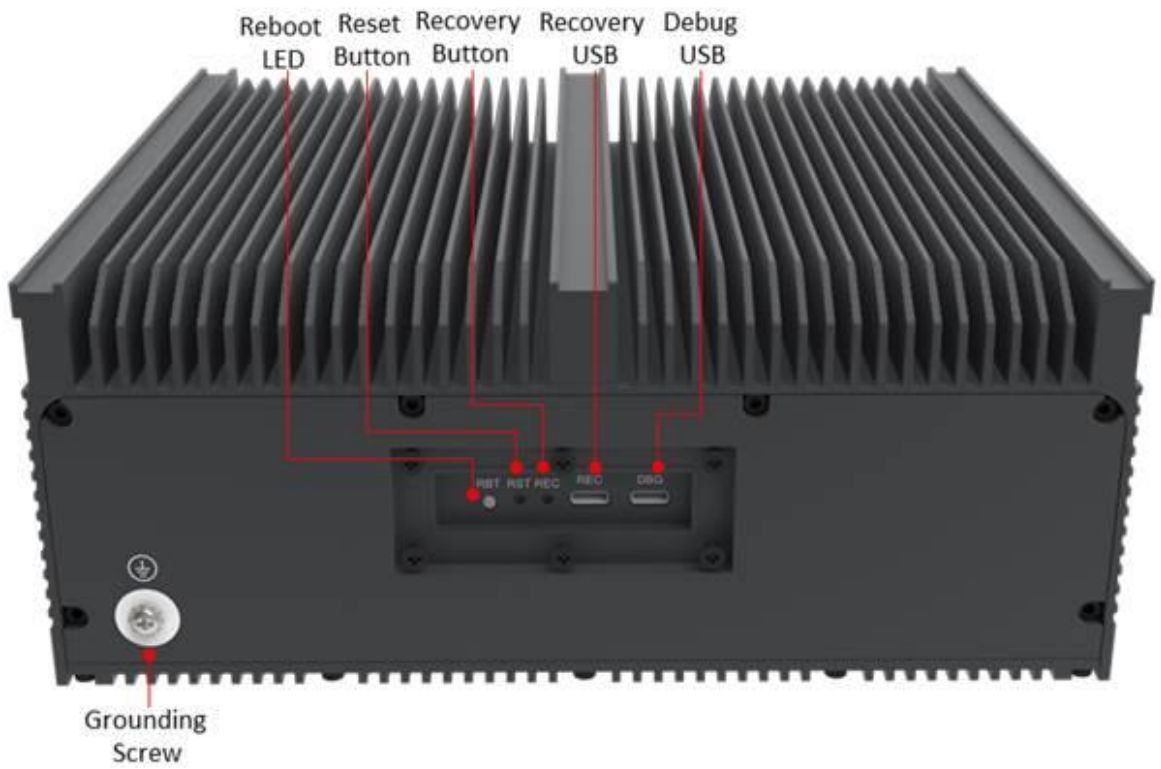
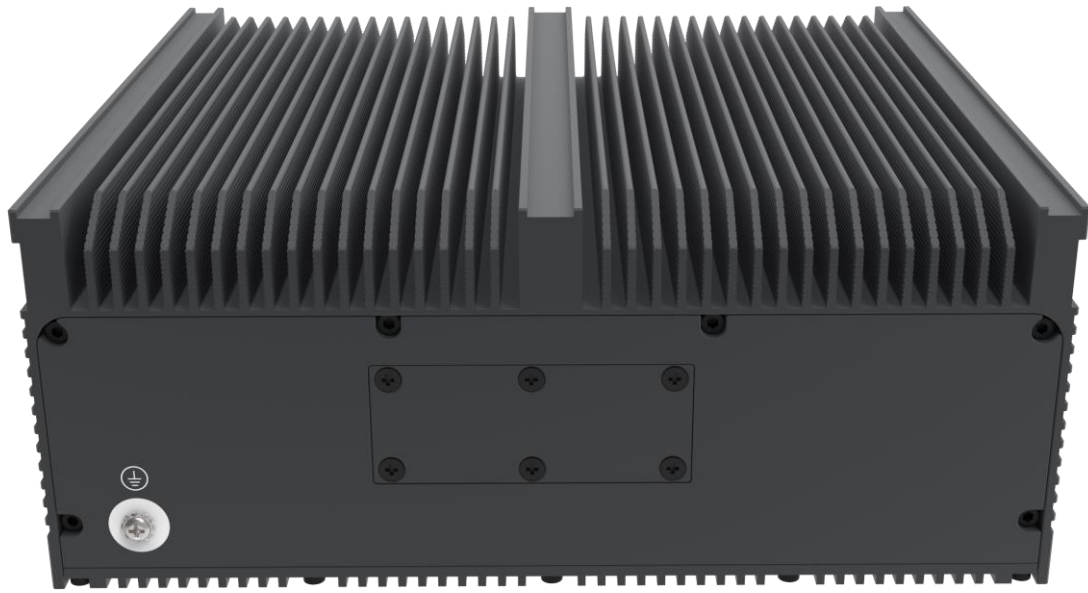
Operating Temp. -20 to 55°C  
 Storage Temp. -40 to 85°C

## Block Diagram

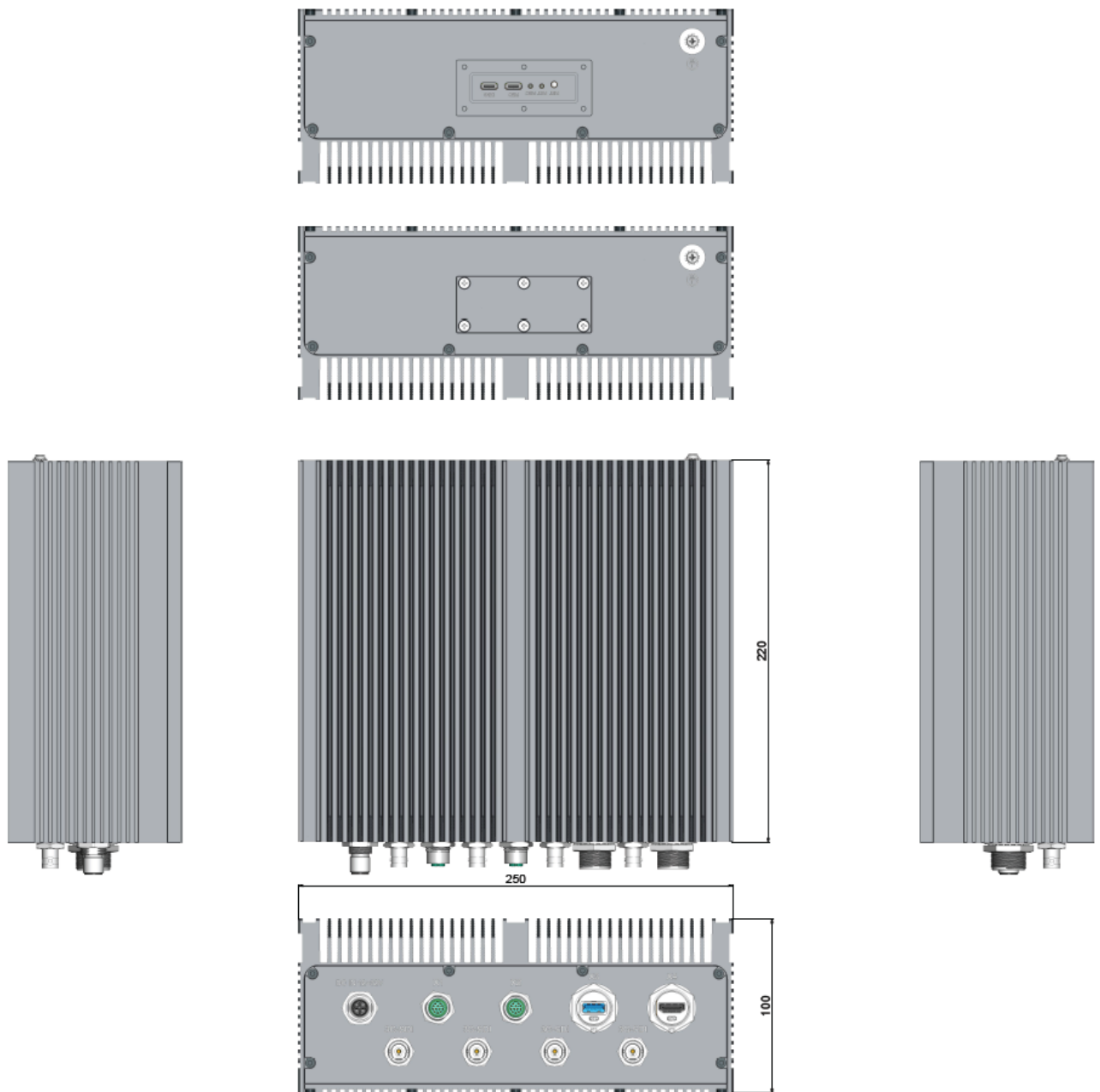


## Appearance





















# Dimensions



# Ordering Information

Model No.	AV710-X4-32G4S	AV710-X4-32G	AV710-X4-32G-8GM	AV710-X4-32G4S-8GM
Front IO				
Rear IO				
CPU Module	NVIDIA Jetson AGX Orin 32GB			
Memory	32G 256bit LPDDR5x			
Graphics	1x HDMI2.0 (3840 x 2160)			
Storage	64 GB eMMC			
	M.2 1TB SSD			
	M.2 1TB SSD			
I/O				
Power In	12V~32V DC-IN with M12 connector			
X1	1x 1GbE LAN with M12 connector			
X2	1x 1GbE LAN with M12 connector			
X3	1x USB 3.0 with M20 connector			
X4	1x HDMI with M20 connector			
3G-SDI	4x 3G-SDI			
GMSL(2)	No			
Power Button	Option			
Dimension	250 x 220 x 100mm(WxDxH)			
Ambient Condition	-20°C ~ +55°C			
OS	Linux 20.04			
JetPack support	Jetpack 5.X (5.0.2 / 5.1)			
Model No.	AV710-X4-64G	AV710-X4-64G4S	AV710-X4-64G-8GM	AV710-X4-64G4S-8GM
Front IO				
Rear IO				
CPU Module	NVIDIA Jetson AGX Orin 64GB			
Memory	64G 256bit LPDDR5x			
Graphics	1x HDMI2.0 (3840 x 2160)			
Storage	64 GB eMMC			
	M.2 2TB SSD			
	M.2 2TB SSD			
I/O				
Power In	12V~32V DC-IN with M12 connector			
X1	1x 1GbE LAN with M12 connector			
X2	1x 1GbE LAN with M12 connector			
X3	1x USB 3.0 with M20 connector			
X4	1x HDMI with M20 connector			
3G-SDI	No			
GMSL(2)	No			
Power Button	Option			
Dimension	250 x 220 x 100mm(WxDxH)			
Ambient Condition	-20°C ~ +55°C			
OS	Linux 20.04			
JetPack support	Jetpack 5.X (5.0.2 / 5.1)			