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



AV710-X4

Military Jetson AGX Orin IP65 Rugged Computer



- NVIDIA® Jetson AGX Orin 32G/64G LPDDR5 with 1792/2048 CUDA and 56/64 Tensor Cores
- Support 2x 1GbE LAN, 1x 10G LAN, 1x RS232/422/4852, 1x CAN, 2x DI, 3x DO, 2x USB3.0
- On board 64GB eMMC 5.1
- IP65 Classified
- 8x GMSL(2) (Options)
- Extended Temperature -20 to +55°C
- DC-IN 12V~32V , Options for MIL-461 EMI Filter
- 4/8x CH SDI/HD/3G-SDI Input – Options
- Dimension: 250 x 325 x 100mm (W x D x H)

Specifications

System

AI Performance	200 / 275 TOPS
CPU module	Ampere GPU + Arm Cortex-A78AE CPU + 64GB LPDDR5 + 64GB eMMC 5.1 Ampere GPU + Arm Cortex-A78AE CPU + 32GB LPDDR5 + 64GB eMMC 5.1
GPU	NVIDIA Ampere architecture with 2048 NVIDIA® CUDA® cores and 64 Tensor Cores, max freq. 1.3GHz NVIDIA Ampere architecture with 1792 NVIDIA® CUDA® cores and 56 Tensor Cores, max freq. 930MHz
CPU	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 3MB L2 + 6MB L3, max freq. 2.2GHz 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 2MB L2 + 4MB L3, max freq. 2.2GHz
Memory	64GB 256-bit LPDDR5, 204.8 GB/s 32GB 256-bit LPDDR5, 204.8 GB/s
Storage	64GB eMMC 5.1 2x 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 2x UART 1x I2S 1x I2C 2x SPI 1x CAN 1x Micro SD 1x SIM 1x MIPI Camera connector (6CSI camera support) Options : 4xCH SDI/HD/3G-SDI Input Options : 4xCH PAL/NTSC Input

Display

Display	1x HDMI 2.0(max resolution 3840x2160)
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Front I/O

X1	1x 1GbE LAN with M12 waterproof connector
X2	1x 1GbE LAN with M12 waterproof connector
X3	1x 10GbE LAN with M12 waterproof connector
X4	1x USB3.0, with M12 waterproof connector
X5	1x USB3.0, with M12 waterproof connector
X6	1x CAN+5x GPIO+1x RS232/422/485, with M12 waterproof connector
X7	1x HDMI with M12/D38999 connector
Switch	1x IP65 power button w/LED Backlight
LED	1x HDD/SSD indicator light
BNC	4/8 Channel 3G-SDI for options

Rear I/O

DC-IN	DC-IN 12V~32V
Antenna	2x SMA (up to 5x)

Operating System

OS NVIDIA Jetpack™ 5.x(5.02/5.1)

Physical

Dimension 250(W) x 325 (D) x 100 (H)mm

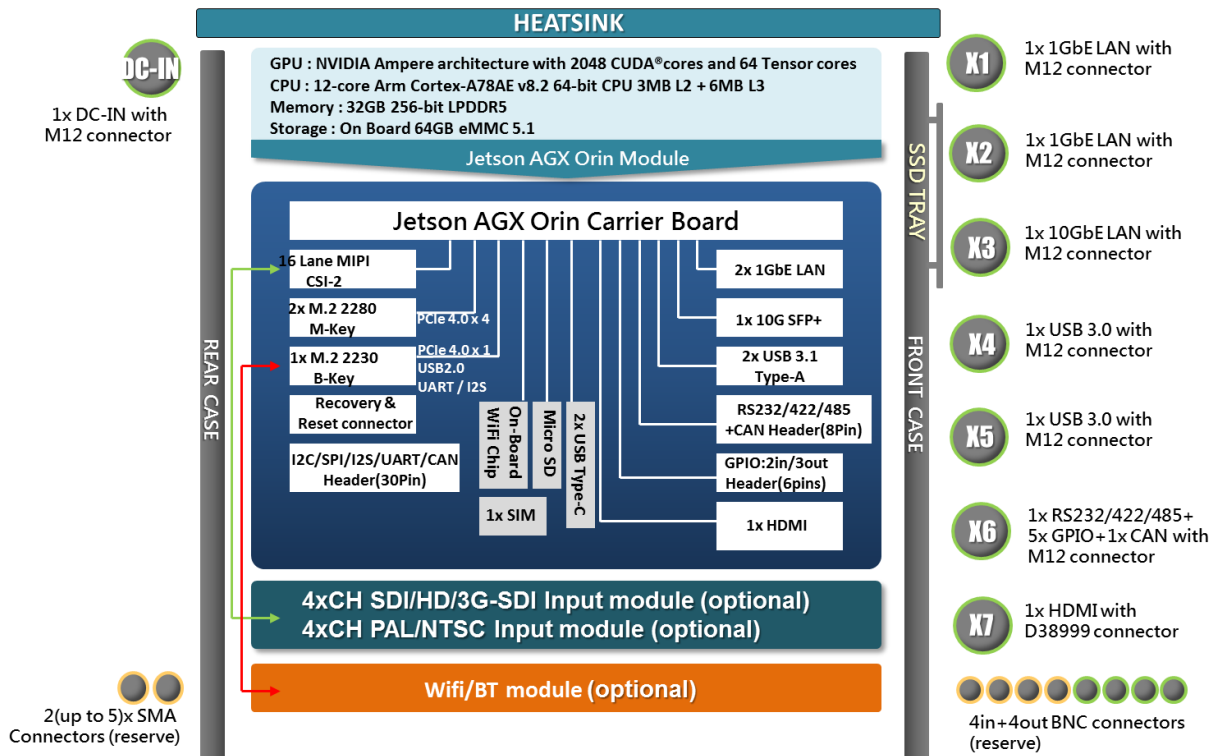
Weight 3.3Kg

Environmental

Operating Temp. -20 to 55°C

Storage Temp. -40 to 85°C

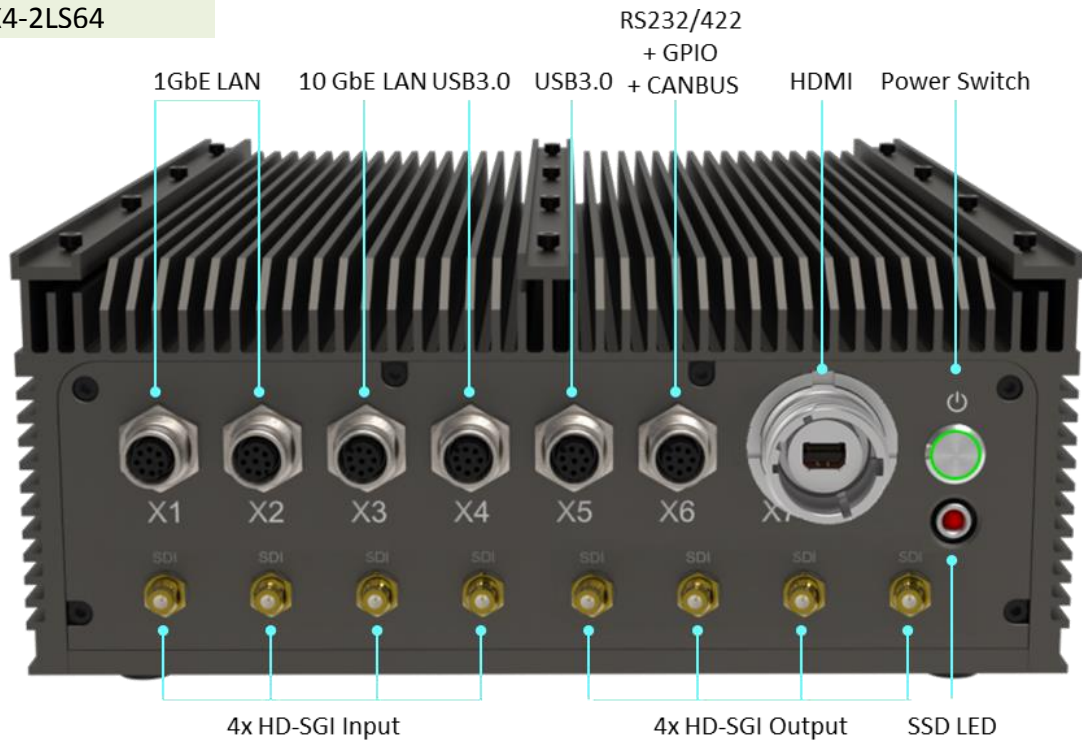
Block Diagram



Appearance

AV710-X4-2LGS64/32

AV710-X4-2LS64



AV710-X4-2LG64/32



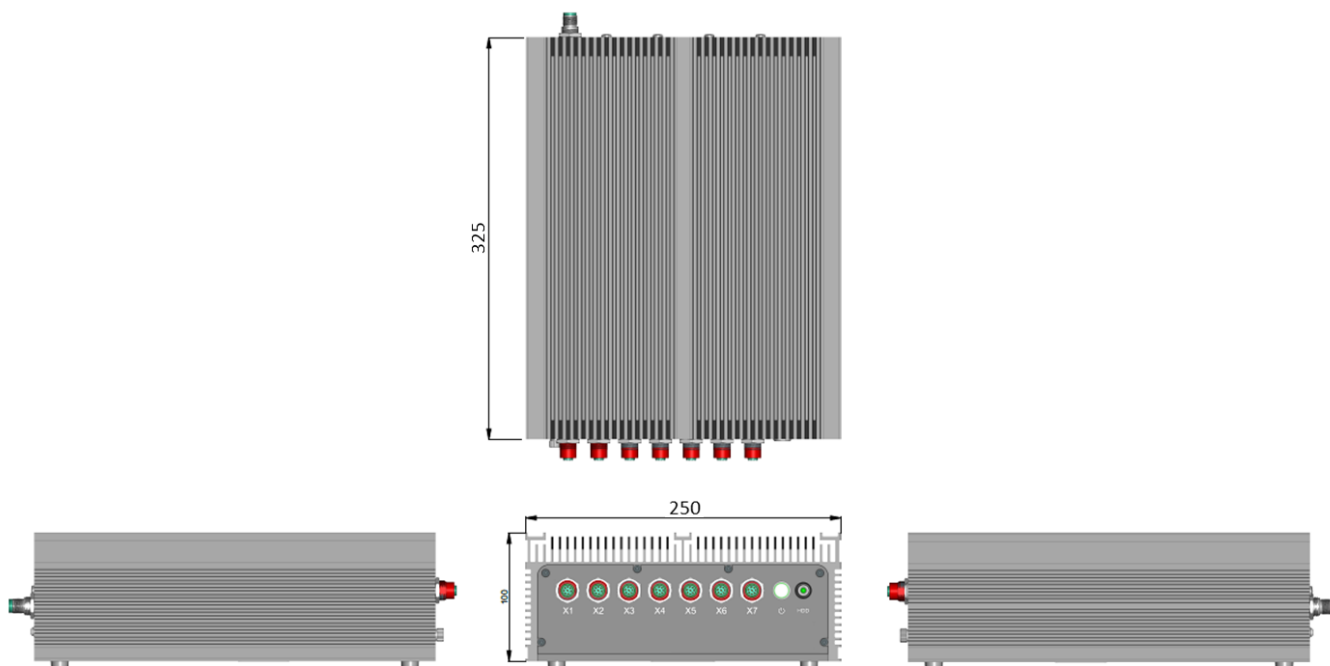
AV710-X4-2LG4S64



AV710-X4-1LG64/32



Dimensions



Ordering Information

	AV710-X4-2LGS64	AV710-X4-2LGS32	AV710-X4-2LG64	AV710-X4-2LS64
CPU Module	NVIDIA Jetson AGX Orin 64GB	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson AGX Orin 64GB	NVIDIA Jetson AGX Orin 64GB
Memory	64G 256bit LPDDR5x	32G 256bit LPDDR5x	64G 256bit LPDDR5x	64G 256bit LPDDR5x
Graphics	1x HDMI2.0 (3840 x 2160)	1x HDMI2.0 (3840 x 2160)	1x HDMI2.0 (3840 x 2160)	1x HDMI2.0 (3840 x 2160)
Storage	64 GB eMMC	64 GB eMMC	64 GB eMMC	64 GB eMMC
			M.2 2TB SSD	M.2 2TB SSD
I/O				
X1	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector
X2	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector
X3	1x 10GbE LAN (Options)	1x 10GbE LAN (Options)	1x 10GbE LAN (Options)	1x 10GbE LAN (Options)
X4-X5	2x USB 3.0 with M12 connector	2x USB 3.0 with M12 connector	2x USB 3.0 with M12 connector	2x USB 3.0 with M12 connector
X6	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector
X7	1x HDMI with D38999 Connector	1x HDMI with D38999 Connector	1x HDMI with D38999 Connector	1x HDMI with D38999 Connector
Power button	1x Power switch with LED backlight	1x Power switch with LED backlight	1x Power switch with LED backlight	1x Power switch with LED backlight
LED	1x HDD/SSD indicator LED	1x HDD/SSD indicator LED	1x HDD/SSD indicator LED	1x HDD/SSD indicator LED
3G-SDI	8x 3G-SDI	8x 3G-SDI	No	8x 3G-SDI
GMSL(2)	8x GMSL	8x GMSL	8x GMSL	No
Power	12V~32V DC-IN	12V~32V DC-IN	12V~32V DC-IN	12V~32V DC-IN
Dimension	250 x 325 x 100mm(WxDxH)	250 x 325 x 100mm(WxDxH)	250 x 325 x 100mm(WxDxH)	250 x 325 x 100mm(WxDxH)
Ambient Condition	-20°C ~ +55°C	-20°C ~ +55°C	-20°C ~ +55°C	-20°C ~ +55°C
OS	Linux 20.04	Linux 20.04	Linux 20.04	Linux 20.04
JetPack support	Jetpack 5.X (5.0.2 / 5.1)	Jetpack 5.X (5.0.2 / 5.1)	Jetpack 5.X (5.0.2 / 5.1)	Jetpack 5.X (5.0.2 / 5.1)

	AV710-X4-2LG32	AV710-X4-2LG4S64	AV710-X4-1LG64	AV710-X4-1LG32
				
CPU Module	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson AGX Orin 64GB	NVIDIA Jetson AGX Orin 64GB	NVIDIA Jetson AGX Orin 32GB
Memory	32G 256bit LPDDR5x	64G 256bit LPDDR5x	64G 256bit LPDDR5x	32G 256bit LPDDR5x
Graphics	1x HDMI2.0 (3840 x 2160)	1x HDMI2.0 (3840 x 2160)	1x HDMI2.0 (3840 x 2160)	1x HDMI2.0 (3840 x 2160)
Storage	64 GB eMMC	64 GB eMMC	64 GB eMMC	64 GB eMMC
	M.2 2TB SSD	M.2 2TB SSD	M.2 2TB SSD	M.2 2TB SSD
	M.2 2TB SSD			
I/O	I/O			
X1	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector		
X2	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector	1x 1GbE LAN with M12 connector
X3	1x 10GbE LAN (Options)	1x 10GbE LAN (Options)	1x 10GbE LAN with M12 connector (By Request)	1x 10GbE LAN with M12 connector (By Request)
X4-X5	2x USB 3.0 with M12 connector	2x USB 3.0 with M12 connector	2x USB 3.0 with M12 connector	2x USB 3.0 with M12 connector
X6	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector	1x RS232/422/485+5x GPIO+ 1x CAN with M12 connector
X7	1x HDMI with D38999 Connector	1x HDMI with D38999 Connector	1x HDMI with D38999 Connector	1x HDMI with D38999 Connector
Power button	1x Power switch with LED backlight	1x Power switch with LED backlight	1x Power switch with LED backlight	1x Power switch with LED backlight
LED	1x HDD/SSD indicator LED	1x HDD/SSD indicator LED	1x HDD/SSD indicator LED	1x HDD/SSD indicator LED
3G-SDI	No	4x 3G-SDI		
GMSL(2)	8x GMSL	4+4x GMSL	8x GMSL	8x GMSL
Power	12V~32V DC-IN	12V~32V DC-IN	12V~32V DC-IN	12V~32V DC-IN
Dimension	250 x 325 x 100mm(WxDxH)	250 x 325 x 100mm(WxDxH)	250 x 300 x 100mm(WxDxH)	250 x 300 x 100mm(WxDxH)
Ambient Codition	-20°C ~ +55°C	-20°C ~ +55°C	-20°C ~ +55°C	-20°C ~ +55°C
OS	Linux 20.04	Linux 20.04	Linux 20.04	Linux 20.04
JetPack support	Jetpack 5.X (5.0.2 / 5.1)	Jetpack 5.X (5.0.2 / 5.1)	Jetpack 5.X (5.0.2 / 5.1)	Jetpack 5.X (5.0.2 / 5.1)