

# NVS-9600X-8P

## AI NVR System Based on NVIDIA® Jetson Orin™ NX



### Features

- Compact design
- Embedded NVIDIA® Jetson Orin™ NX capable of up to 100 TOPS
- 2 x 1 GbE RJ-45 ports (1000 Base-T)
- 8 x RJ-45 10/100 Mbps (IEEE 802.3af)
- Support 1 x 3.5" SATA HDD, or 1 x 2.5" SSD
- Supports 1 x M.2 2280 NVMe SSD for OS installation
- Features 2 x USB 2.0 slots
- 4 x digital inputs/ 4 x digital outputs
- Power Input with Isolation

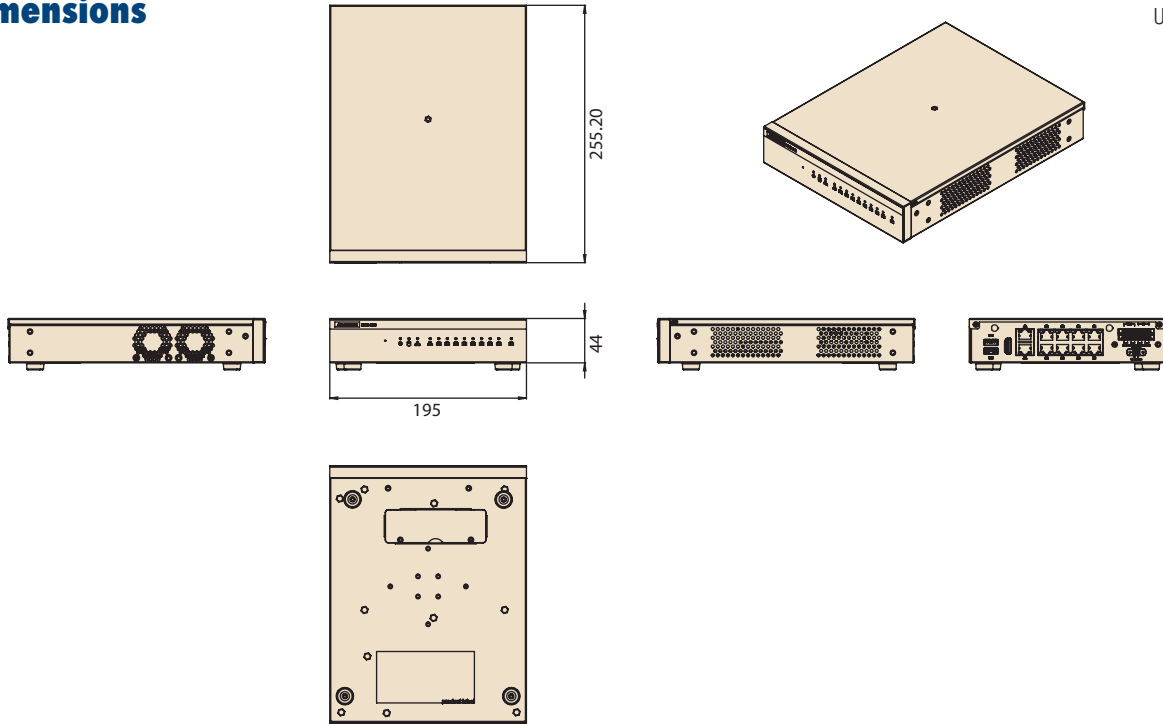
### Specifications

	NVS-9600X4-8P	NVS-9600X3-8P	
Processor System	CPU Model	Jetson Orin NX 16GB	Jetson Orin NX 8GB
	AI Performance	100 TOPS	70 TOPS
	GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	
	CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2 MB L2 + 4 MB L3	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5 MB L2 + 4 MB L3
	Memory Capacity	16 GB 128-bit LPDDR5 102.4 GB/s	8 GB 128-bit LPDDR5 102.4 GB/s
I/O	Ethernet	2 x 10/100/1000 Mbps	
	Display	HDMI (max. resolution 3840 x 2160 @ 60 Hz)	
	USB	1 x USB 3.0 ((Internally used for recovery mode) 2 x USB 2.0	
	Digital I/O	4-ch DI, 4-ch DO	
	PoE + Ports	8 x RJ-45 (10/100 Mbps + PoE / total power: 123.2 W)	
Expansion	M.2	1 x M.2 3042 (B-Key, signal: USB)	
	SIM	1 x Nano SIM slot	
	TPM	1 x TPM 2.0	
Storage	M.2	1 x M.2 2280 (M-Key, NVMe, signal: PCIe x4)	
	HDD/SSD	1 x 3.5" HDD or 1 x 2.5" SSD	
Power	Power Input	54 V DC, 4.26 A	
	Power Supply	Adapter (external)	
Environment	Operating Temperature*	0 to 50°C (32 to 122°F)	
	Operating Humidity	95% relative humidity @ 40°C (104°F), non-condensing	
	Vibration	1 Grms @ 5 to 500 Hz, random, 1 hr/axis	
	Shock	10G / 11ms	
Mechanical	Dimensions (W x D x H)	254.5 x 195.0 x 44.45 mm (10.0 x 7.67 x 1.75 in)	
	Weight	1.14 kg (2.5 lb)	
	Installation	Desktop / wallmount	
BSP	Jetpack	Above 5.1	
Certifications		CE/FCC	

\* Depending on the installation situation and interface connection. Derating of max. operating temp. is possible when using the cellular LTE module.

## Dimensions

Unit: mm



## Ordering Information

Part Number	NVIDIA Module	NVIDIA Module Memory	NVIDIA Module Emmc	NVMe**
NVS-9600X3-8P	Orin NX	8 GB	N/A	128 GB
NVS-9600X4-8P	Orin NX	16 GB	N/A	128 GB

\*\* The system BSP will be pre-installed in a 128GB NVMe M.2 SSD.

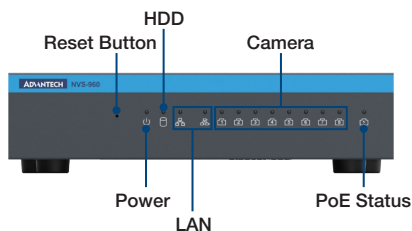
## Packing List

Packing List	Description	Q'ty
1960102775T002	Wall Mount kit	1 (set)
1652007963-01	DIO Terminal Block	1
1930060501	HDD Screw	4
1700032684-01	M cable SATA 22P/SATA 7P+1x4P-2.5 20cm 90/180 6G	1
1700032685-01	A cable USB-A 9P(M)/USB-A 9P(M) 15cm	1
1930005626	Screw M4*5L S/S D=8.0 H=1.6 + ST Ni	4
1652002209	PLUG-IN BLOCK DIP 2P (F)	1
1930001066	Screw M3x5L 1/4R/S D=6.8 H=1.95 2+ST Ni NK M9Bot	4
1990005896S000	RUBBER BLACK FOR ARK-6610	4

## Optional

Part Number	Description
XAC-FSP230-AWAN3	ADP A/D 100-240 V 230 W 54 V
1702002600-01	Power cord (USA)
1702002605	Power cord (EU) 2-pin
9651960AL00	LTE bracket accessory kit
NVS-960STD-RM	NVS-960 STD rack mount kit
NVS-960STD-DR	NVS-960 STD DIN rail kit

## Front View



## Back View

