

NVS-821RL

High performance 16 / 24 AI NVR with
802.3 at/bt PoE



Features

- Up to 24CH IP video input
- Up to 2x 802.3bt (10/100) and 22x 802.3at (10/100) with PoE management
- Supports 10/100/1000 Base uplink port
- Supports 8x 3.5" SATA HDD
- Supports SW RAID 0,1,5,10
- Support MXM Type A module for NVIDIA MXM module
- Supports 2x HDMI 2.0 video output with 4K resolution
- Supports TPM 2.0
- Supports 2x M.2 2280 for OS storage and AI module
- Supports BMC management

Introduction

NVS-821RL, a state-of-the-art NVR that combines a 14th generation Intel Core, video analysis server, network switch, and 802.3bt camera power supply into one powerful system. It features 16 to 24 PoE LAN ports with a high power budget, supporting up to 360 watts of PoE power, averaging 15 watts per port. Additionally, it supports up to eight 3.5" HDDs for local storage of footage, preventing cybersecurity issues.

NVS-821RL supports MXM Type A modules, ranging from the powerful NVIDIA A2000 to the efficient NVIDIA T1000, delivering up to 8.25 TFLOPS of computational power. This advanced system can leverage AI technology to enhance image analysis, object recognition, and event prediction, ensuring superior accuracy and performance. Ideal for complex surveillance tasks, the NVS-821RL is perfect for banking, retail, healthcare, building surveillance, large hypermarkets, and campus safety.

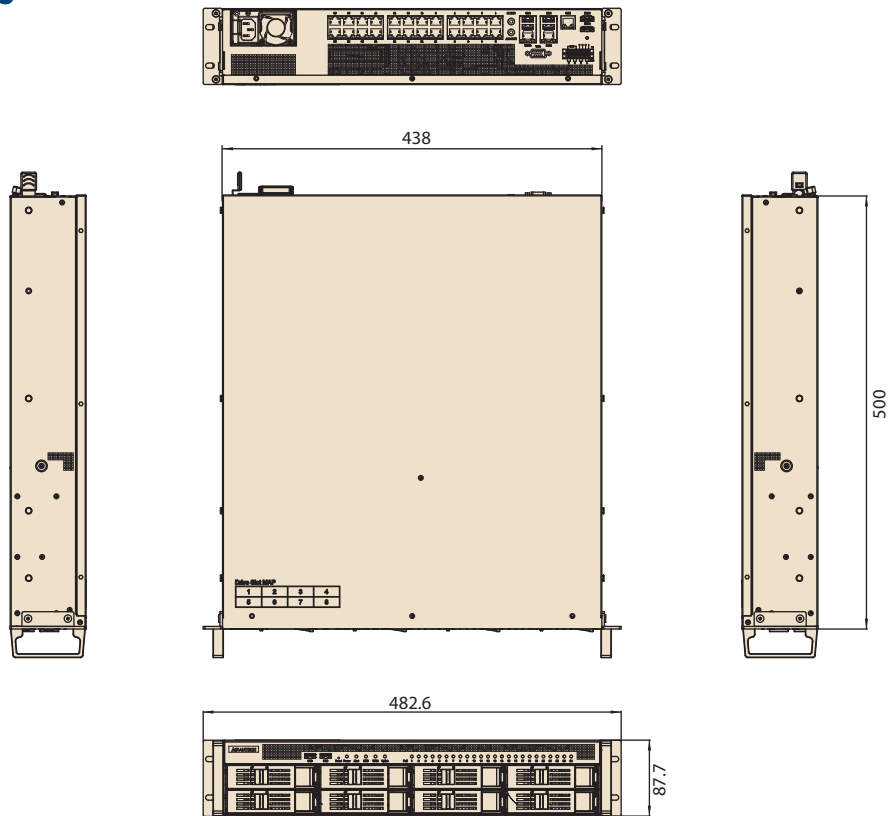
With AI-driven features and robust computational power, the NVS-821RL sets a new standard in the surveillance market, offering unparalleled reliability and efficiency for all your security needs.

Specifications

Model	Part Number	NVS-821RL-16P	NVS-821RL-24P
System	Processor	Intel® 14th Generation Core™ i7/i5/i3/Pentium	
	Memory	Up to 64GB DDR4 3200	
	Expansion	1x MXM socket for MXM type A module 1x M.2 2280 socket for 2nd NVME storage or AI module 1x PCIe4 slot for extension device	
Storage	SATA HDD	8x 3.5" HDD	
	SATA SSD	1x M.2 2280 SSD	
Front Panel	USB 2.0	Power	2
		Alert	1
		HDD	1
	LED Indicator	WAN	1
		Uplink	1
		PoE	16
			24
Rear I/O Panel	USB 3.0		2
		802.3bt (10/100)	2
	PoE Port	802.3at (10/100)	14
		Total Power	360W
	Uplink	Gigabit Ethernet	2
	Display	HDMI	2
		VGA	1
	DIO	4 in 4 out	
Mechanical	Audio	1x Line-out, 1x Mic-in	
	Dimensions (W x L x H)	438 x 500 x 87.7mm (2U)	
Power Management	Input	100-240 V _{AC}	
	Output	Voltage	54V/12V
		Wattage	800W
Environment	Temperature	Operation	0 to 40 °C
		Storage	-20 to 70 °C
	Humidity	Operation	20% to 90 % RH

Dimensions

Unit: mm



High performance video recorder with PoE+ switch

Part Number	Product Description	802.3bt	802.3at	PSU
NVS-821RL-24PB	Intel Core-24 ports PoE++ NVR	2	22	800W
NVS-821RL-16PB	Intel Core-16 ports PoE++ NVR	2	14	800W
NVS-821RL-24PA	Intel Core-24 ports PoE+ NVR	0	24	800W
NVS-821RL-16PA	Intel Core-16 ports PoE+ NVR	0	16	800W

*Note: CPU, memory, storage and operating system bundled by request.

Optional Accessories

Part Number	Product Description
TBD	Front Bezel
TBD	Rack Mount Slides
TBD	PClex4 Riser Card