

# NV1

1U Smart NVR System  
with Intel® Tiger Lake-UP3 Processor

## Introduction

- Intel® Tiger Lake-UP3 Core i7/i5/i3/Celeron ULV processors
- 16-CH H.265/H.264 decoding ability & simultaneous playback
- 16-CH AI video analytics (7.1 TOPS)
- Equipped 0/8/16 802.3 at/af PoE ports
- Support 2 x HDD RAID 0/1 storage



Intel  
CORE  
i3

Intel  
CORE  
i5

Intel  
CORE  
i7

Intel  
CELERON

Intel  
IRIS<sup>Xe</sup>  
GRAPHICS

Intel  
Tiger Lake

LAN  
X2

4K

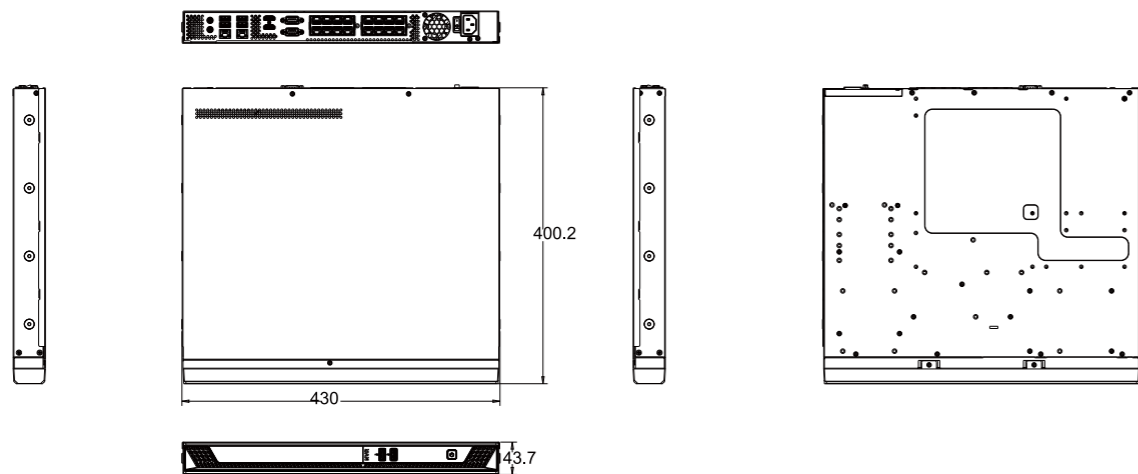
PoE  
X16

AI  
Video Analytics  
(7.1 TOPS)

## I/O Interface



## Dimension (mm)



# NV1 NVR System

SYSTEM	
CPU	11th Gen Tiger Lake-UP3 Intel® Celeron 6305E ULV Processor, 1.80 GHz, TDP:15W option: Core i3-1115G4E/ i5-1145G7E / i7-1185G7E, TDP: up to 28W
Chipset	Intel® SoC Integrated
System Memory	DDR4 3200MHz, 2 x 260-pin SO-DIMM, Max. 64GB (Non-ECC)
Graphics & AI	Intel® Iris Xe Graphics Video Decoding (1080P, H264 / H.265): up to 64 channels Video Recoding (1080P, H264 / H.265): up to 64 channels Video Playback (1080P): up to 64 channels Video Analytics / Deep Learning (1080P): 16 channels (7.1 TOPS)
Display Interface	2 x HDMI 1.4 (Up to 4K@30 Hz)
Storage Slot	2 x 3.5" internal HDD (RAID 0/1)
Ethernet	Intel® I219-LM Giga LAN, Intel® I225-LM 2.5GbE LAN
Audio	Realtek® ALC888S
I/O Chipset	Nuvoton NCT6126D
TPM	Nuvoton NPCT750AABYX TPM2.0
Expansion Slot	1 x M.2 224/2260/2280 M Key (PCIe X1, SATA) 1 x Mini PCIe full/ half size slot (PCIe, SATA, USB)
Internal Speaker	1 x Buzzer
Indicator	Power LED, HDD LED, Alarm LED, Power button
Front I/O	2 x USB 2.0 4 x USB 3.2 Gen2 2 x DisplayPort 1.4
Rear I/O	1 x Line-out, 1 x Line in 2 x RJ-45 1 x RS232, 1 x RS485
IP Camera Input (Optional)	Options#1: 8 x PoE ports (IEEE 802.3 af/at, Max 25.5W for single port, 80W in total) Options#2: 16 x PoE ports (IEEE 802.3 af/at, Max 25.5W for single port, 150W in total)
Edge AI Engine (Optional)	1 x Movidius Myriad X VPU, and Intel® Open VINO™ toolkit supported (optional)
POWER REQUIREMENT	
Power Input	100~240V AC-in
Power Adapter	Built-in 280W Flex ATX PSU with AC Plug
MECHANICAL	
Thermal Design	With Fan
Material	Bezel: Plastic / Chassis: Steel
Weight	3.5kg
Mounting	Rackmount
Dimensions (W X D X H)	19" 1U Chassis : 427 x 381 x 44.4 mm
ENVIRONMENTAL	
Operating Temperature	0 ~ 50°C (32 ~ 122°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10% ~ 90% R/H (Non-condensing)
Vibration Resistance	5Hz~500Hz / 2Grms / 3Axis (Non-operating)
Shock Resistance	120G, 2ms Duration (Non-operating)
Certification	CE / FCC Class B
OS	
OS Support	Windows® 10 64bit, Linux (support by request)

## Ordering Information

Model Number	Processor	PoE	HDD	Power	Model Number	Processor	PoE	HDD	Power
NV1-6305E-0P	Celeron 6305E	0	2	100~240V AC-in	NV1-1115G4E-16P	i3-1115G4E	16	2	100~240V AC-in
NV1-6305E-16P	Celeron 6305E	16	2	100~240V AC-in	NV1-1145G7E-0P	i5-1145G7E	0	2	100~240V AC-in
NV1-1115G4E-0P	i3-1115G4E	0	2	100~240V AC-in	NV1-1145G7E-16P	i5-1145G7E	16	2	100~240V AC-in

## Packing List

Packing		
• 1 x NV1 System	• 1 x Quick Installation Guide	• 1 x Rackmount Kit
• 1 x Screw Pack	• 2 x AC Power Cord (US & EU)	