

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



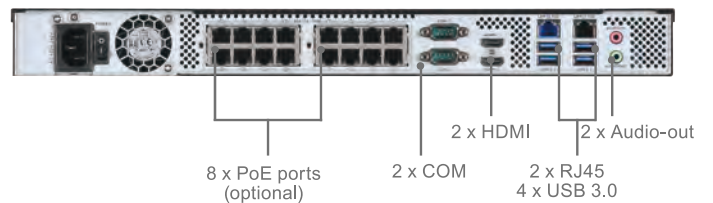
| | | | | |
|------------------|----------|-----------------|---------|----------------------------|
| | | | | |
| | | | | |
| Intel Tiger Lake | Dual LAN | Dual 4K Display | X16 PoE | Video Analytics (7.1 TOPS) |

I/O Interface

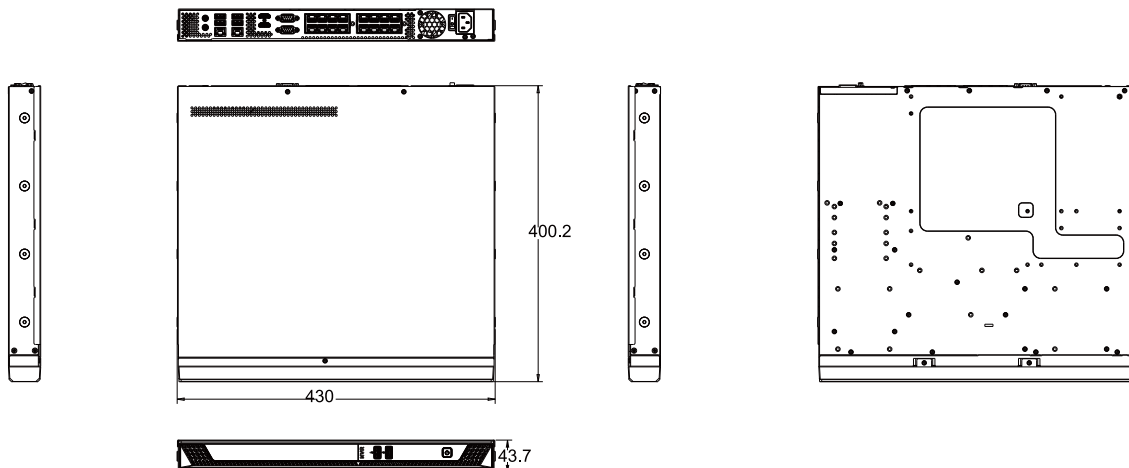
Front I/O



Rear I/O



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 | Celeron 6305E: Intel® UHD Graphics / Core i7-1185G7E: 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 |
| Rear I/O | 4 x USB 3.2 Gen2 |
| | 2 x DisplayPort 1.4 |
| | 1 x Line-out, 1 x Line out |
| | 2 x RJ-45 |
| 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 64-bit/Windows® 11 64bit, Linux (support by request) |

Rugged

Fanless

Fanned

Rackmount

Ordering Information

| Model Number | Processor | PoE | HDD | Power |
|-------------------|-----------------|-----|-----|----------------|
| NV1-6305E-8POE | Celeron 6305E | 8 | 2 | 100~240V AC-in |
| NV1-1185G7E-16POE | Core-i7 1185G7E | 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) | |