

Mitac NV1 Smart NVR series

1U 19-inch rackmount system with Intel® Tiger Lake-UP3 processor

Features

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



1U 19-inch rackmount Smart NVR system



Intel® 11th Gen. Tiger Lake-UP3 processors



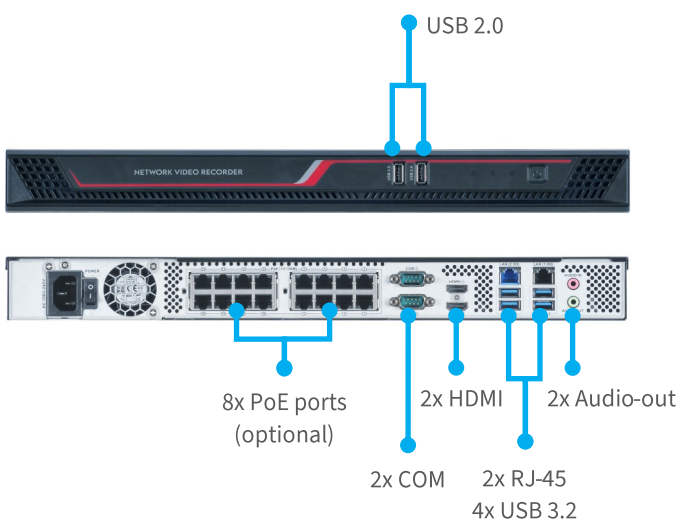
Supports up to two 4K displays

Smart 1U network video recorder

The Mitac NV1 is a 1U 19-inch embedded system specifically designed as a high-end network video recorder. It is equipped with Intel® 11th Gen. Tiger Lake-UP3 processors that provide powerful and efficient AI performance. The system consists of a rugged steel chassis with plastic bezel.

The NV1 is capable of withstanding a temperature range of 0°C to 50°C during operation, making it ideal for industrial deployment environments. The system is also equipped with a variety of interfaces, including up to 16x Power-over-Ethernet ports, 2x HDMI 1.4, 4x USB 3.2 Gen2, 1x RS-232, 1x RS-485 and 2x RJ-45 GbE LAN.

The NV1 is an intelligent NVR (network video recorder) solution that enables resolution up to 4K at 30Hz. The system allows not only video decoding, but also video recording and video playback with up to 64 channels (1,080P, H.265 / H.264) as well as video analytics and deep learning on up to 16 channels (7.1 TOPS).



Mitac NV1 Smart NVR series

1U 19-inch rackmount system with Intel® Tiger Lake-UP3 processor

Mitac NV1

SYSTEM

CPU	11 th Gen. Tiger Lake-UP3 Intel® Celeron 6305E ULV processor, 1.80 GHz, TDP:15W Optional: Core™ i3-1115G4E/ i5-1145G7E / i7-1185G7E, TDP: up to 28W
Chipset	Integrated Intel® SoC
Graphics	Intel® Iris Xe Graphics Video Decoding (1,080P, H.264 / H.265): up to 64 channels Video Recording (1,080P, H.264 / H.265): up to 64 channels Video Playback(1.080P): up to 64 channels Video Analytics / Deep Learning (1.080P): 16 channels (7.1 TOPS)
I/O Chipset	Nuvoton NCT6126D
TPM	Nuvoton NPCT750AABYX TPM2.0
OS	Windows® 10 64-bit / Linux (support by request)
Memory	DDR4 3,200MHz, 2 x 260-pin SO-DIMM, Max. 64GB (Non-ECC)
Storage	2 x 3.5" internal HDDs (RAID 0/1)

INTERFACE

USB	2x USB 2.0 (front), 4 x USB 3.2 Gen2 (rear)
LAN	2 x RJ-45 (Intel® I219-LM Giga LAN, Intel® I225-LM 2.5GbE LAN)
COM	1 x RS-232, 1 x RS-485
Video	2 x HDMI 1.4
Audio	Realtek® ALC888S, 1 x Line-out, 1 x Line out, 1x internal speaker
IP Camera Input (optional)	Option 1: 8x PoE ports (IEEE 802.3 af/at, Max. 25.5W for single port, 80W total) Option 2: 16x PoE ports (IEEE 802.3 af/at, Max. 25.5W for single port, 150W total)
Edge AI Engine (optional)	1 x Movidius Myriad X VPU and Intel® Open VINO™ toolkit supported (optional)
Expansions	1 x M.2 2240/2260/2280 M key (PCIe x1, SATA) 1 x Mini PCIe full / half size slot (PCIe, SATA, USB)

MECHANICAL & ENVIRONMENTAL

Power	100~240V AC-in, Built-in 250W Flex ATX PSU with AC Plug
Cooling	Fan
LEDs	Power button / Alarm LED / Power LED / HDD LED
Temperature Range	Operating: 0 ~ 50°C (32 ~ 122°F), Storage: -20 ~ 70°C (-4 ~ 158°F)
Humidity	10% ~ 90% R/H (non-condensing)
Shock Resistance	120G, 2ms duration (non-operating)
Vibration Resistance	5Hz~500Hz / 2Grms / 3Axis (non-operating)
Enclosure	Bezel: Plastic / Chassis: Steel
Dimensions	1U 19-inch rackmount: 427 x 381 x 44.4 mm
Weight	3.5kg
Certifications	CE / FCC Class B

Mitac NV1 Smart NVR series

1U 19-inch rackmount system with Intel® Tiger Lake-UP3 processor

Technical drawing (enclosure)

