NVPS Series

Network Video Recorder (NVR) (1U/2U)

Integrated with Managed PoE Switch

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| **1U PoE NVR** | **2U PoE NVR** |
| NVPS-1516F1A-Q370 | NVPS-1516F2A-C246 |
| NVPS-1524F1A-Q370 | NVPS-1620F2B-C246 |

Overview

NVR PoE Switch Series is an advanced NVR device integrated with managed PoE switch for IP surveillance applications.

NVR PoE Switch has validated hardware components/subsystems and advanced PoE management platform to provide a cost-effective plus added value of recording and video management solution, can be loaded with various VMS/OS.

NVR PoE Switch is ideal to deliver management simplicity, intuitive user experience, and lower total cost of ownership. The embedded Device Managed System is designed to be extremely easy-to-use/manage/integrate for IP-Cam Applications.

Key Features

* Support microATX motherboard, various CPU can be selected
* Support internal HDD bracket, maximum 2~6x HDDs can be installed by user.
* Supports surveillance up to 4K video resolution
* Can be loaded with various Video Management Software
* Can be loaded with various OS
* L2+ Managed features provide easier manageability, robust security and QoS.
* Built in Device Management System (DMS)
* Support API customization for various VMS or applications
* All-in-one solution with integrated 16 / 24 ports PoE+ switch (802.3af/at)

Benefits

* Modular, Flexible, and Customizable Architecture

Support modular motherboard/switchboard type of building blocks, and it is designed to support various microATX/miniITX motherboards, power supplies, HDD access form factors. Flexibility to support various types of CPU, memory, OS, I/O expansion, and PoE features. Customization of NVR hardware and switch API firmware to optimize the benefits and to enhance the competitive differentiation for customers.

* Easy to Install, Configure and Troubleshoot by Device Management System

The DMS provides embedded functions to facilitate devices management at anytime and anywhere. Its user-friendly interface helps users to manage devices intuitively.

It supports IP-camera for end users to enhance manageability and save time/cost during installation/maintenance stages.

Specification

**Server Subsystem**

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| **CPU** | Intel® Core™ i3-8100  (8th/9th Gen. i5, i7, or Pentium®/Celeron® per request) |
| **RAM** | 8GB DDR4 DIMM (up to 128GB per request) |
| **Operating System** | Linux Ubuntu 18.04  (Win 10 IoT Enterprise, Win Server 2019 per request) |

**USB**

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| **Model** | **Dimension** |
| **NVPS-1516F1A-Q370** | 4 x USB3.1, 4 x USB2.0 |
| **NVPS-1524F1A-Q370** | 4 x USB3.1, 4 x USB2.0 |
| **NVPS-1516F2A-C246** | 4 x USB3.1, 4 x USB2.0 |
| **NVPS-1620F2B-C246** | 4 x USB3.1, 4 x USB2.0  2x USB3.0 |

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| **Network Interface** | 2 x 1 GbE RJ45 (LAN 1/2) |
| **Expansion Slots** | 1 x M.2 2242/2260/2280 M key |
| **Display** | 1 x HDMI, 1 x DVI-I (DVI-D signal), 1 x DP++ |
| **COM** | 1x DB9 (support RS-232/422/485) on rear panel |
| **Digital I/O** | DI(Input) x2 or x4, DO(Output) x2 or x1 |

**Storage Subsystem**

**Number of HDD**

HDDs to be installed by customers

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| **Model** | **Description** |
| **NVPS-1516F1A-Q370** | 2x 3.5’ HDD (Top Access) |
| **NVPS-1524F1A-Q370** | 2x 3.5’ HDD (Top Access) |
| **NVPS-1516F2A-C246** | 5x 3.5’ HDD (Top Access) |
| **NVPS-1620F2B-C246** | 6x 3.5’ HDD (Front Access) |

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| **RAID Support** | RAID 0/1/5/10 (Intel® Rapid Storage Technology) |
| **VMS/OS Storage** | 16GB M.2 SSD (up to 256GB M.2 SSD per request) |

**Power System**

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| **Power Input** | 100~240V, 50/60 Hz |
| **Max. Power** | ATX PSU 300W or 400W,  PoE PSU 350W or 450W |
| **PoE Power Budget** | Max. available PoE power: 250W or 370W  Port 1 - 16 support PoE+(802.3at)/ PoE(802.3af) |

**Network Switch Subsystem**

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| **Switch Board** | **Interface** |
| **NVPS-1516F1A-Q370** | 16 x GbE PoE RJ45 |
| **NVPS-1524F1A-Q370** | 24 x GbE PoE RJ45 |
| **NVPS-1516F2A-C246** | 16 x GbE PoE RJ45 |
| **NVPS-1620F2B-C246** | 16 x GbE PoE RJ45  2 x GbE RJ45  2 x GbE SFP |

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| **Network Management** | DHCP Server/Client, NTP, HTTPs, Telnet (CLI), Syslog, Device Management System (DMS), API Management |
| **Security** | SSH, SSL, IEEE 802.1X, IGMP-RADIUS, Dynamic VLAN, Layer 2 Private VLAN, Port Security, IP Source Guard, RADIUS/ TACACS+, Storm Control, DHCP Snooping, Loop Protection |
| **Protocols** | IPv6, DHCP, IGMP & MLD v1/v2 Snooping, Multicast VLAN Registration (MVR), IEEE 802.1ab (LLDP), UPnP, SNMP, Remote Monitoring (RMON) |
| **Power over Ethernet (PoE)** | Port Configuration, PoE Scheduling, Auto-checking, Power Delay |

**General Specification**

**Form Factor**

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| **Model** | **Description** |
| **NVPS-1516F1A-Q370** | 1U rack & wall-mount |
| **NVPS-1524F1A-Q370** | 1U rack & wall-mount |
| **NVPS-1516F2A-C246** | 2U rack & wall-mount |
| **NVPS-1620F2B-C246** | 2U rack & wall-mount |

**Dimension (WxHxD)**

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| **Model** | **Dimension** |
| **NVPS-1516F1A-Q370** | 438x44x548mm |
| **NVPS-1524F1A-Q370** | 438x44x548mm |
| **NVPS-1516F2A-C246** | 440x88x490mm |
| **NVPS-1620F2B-C246** | 440x88x500mm |

**Weight**

The following weight is without HDD

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| **Model** | **Dimension** |
| **NVPS-1516F1A-Q370** | Approx. TBD kg / TBD lbs |
| **NVPS-1524F1A-Q370** | Approx. TBD kg / TBD lbs |
| **NVPS-1516F2A-C246** | Approx. TBD kg / TBD lbs |
| **NVPS-1620F2B-C246** | Approx. TBD kg / TBD lbs |

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| **Operating Temperature** | 0⁰ - 50⁰ C / 32⁰ - 122⁰ F |
| **Storage Temperature** | -20⁰ - 70⁰ C / -4⁰ - 158⁰ F |
| **Humidity** | 10 – 90% relative humidity (non-condensing) |
| **Regulatory Compliance** | CE (class A with LVD EN62368-1); FCC (class A) Others per request. |
| **Hardware Warranty** | 2 years (Optional 5 years per request) |