NVPS-1516F1A-Q370

Network Video Recorder (NVR) (1U)

Integrated with Managed PoE Switch



Overview

NVPS-1516F1A-Q370 is an advanced NVR device integrated with managed PoE switch for IP surveillance applications.

NVPS-1516F1A-Q370 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.

NVPS-1516F1A-Q370 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 2x 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 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**

|  |  |
| --- | --- |
| **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) |
| **Network Interface** | Motherboard: 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++ |
| **USB** | 4 x USB3.1, 4 x USB2.0, 2 x USB2.0 internal |
| **COM** | 1x DB9 (support RS-232/422/485) on rear panel |
| **Digital I/O** | DI(Input) x4, DO(Output) x1 |

**Storage Subsystem**

|  |  |
| --- | --- |
| **Number of HDD** | 2 x 3.5’ HDD (Top Access), HDDs to be installed by customers |
| **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) |

**Network Switch Subsystem**

|  |  |
| --- | --- |
| **Network Interface** | 16 ports GbE RJ45 with PoE Max. 350W  |
| **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 |

**Power System**

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

**General Specification**

|  |  |
| --- | --- |
| **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. |
| **Form Factor** | Standalone/ 1U rack & wall-mount |
| **Dimension** | 438x44x548mm (WxHxD) |
| **Weight** | Approx. TBD kg / TBD lbs (without HDD) |
| **Hardware Warranty** | 2 years (Optional 5 years per request) |