

# NVS-160

## Embedded Video Recorder with PoE Switch



### Features

- Embedded PoE Switch supports 802.3at/802.3af
- 10/100/1000Base-T and SFP combo uplink port
- Up to 16 Power over Ethernet ports (IP video recorder)
- Up to 8 composite video inputs (Hybrid video recorder)
- Soldered NAND flash
- Supports two 3.5" SATA hard drive disks
- 4 dry contact inputs and 1 relay output
- One HDMI display output

### Introduction

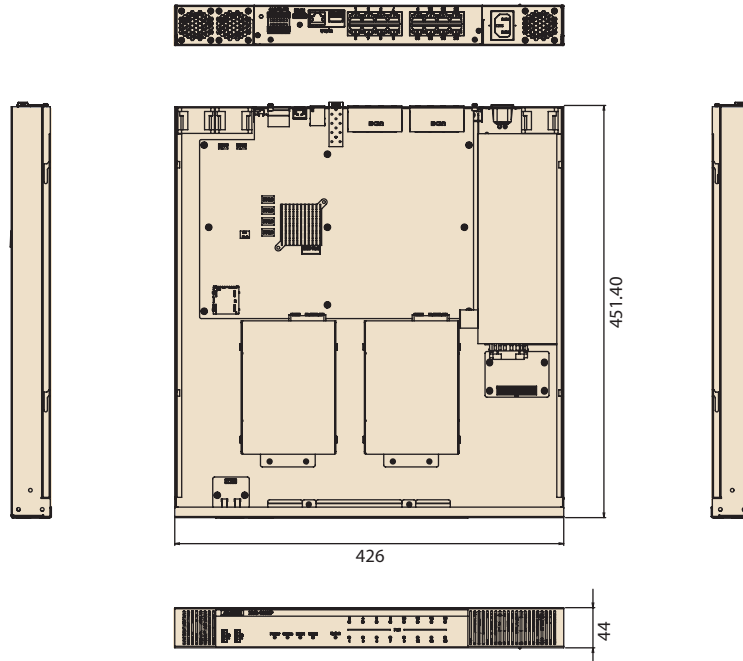
Advantech NVS-160 DSP-based video recorder combines the functions of a high performance Network Video Recorder with a power-over-Ethernet (PoE) Switch into one system. It provides PoE ports and optional composite video inputs, with automatic configuration, recording, and uplink with specific management software.

### Specifications

| Model                    | Part Number            | NVS-160EP-SA31E                                               | NVS-160EH-SA31E |               |
|--------------------------|------------------------|---------------------------------------------------------------|-----------------|---------------|
| System                   | Processor              | TI TMS320DM8168                                               |                 |               |
|                          | Memory                 | 2Gb*4 DDR3-1333                                               |                 |               |
|                          | Storage                | SATA-II 3.5" HDD x 2<br>On board 2Gb NAND flash<br>SD&MMC x 1 |                 |               |
|                          | Internal fan           | 2                                                             |                 |               |
| Front Panel              | USB 2.0                | 2                                                             |                 |               |
|                          | Indicators             | PoE status                                                    | 16 (Port 1~16)  | 8 (Port 1~8)  |
|                          |                        | Composite                                                     | N/A             | 8 (Port 9~16) |
|                          |                        | Power                                                         | 1               |               |
|                          |                        | System status                                                 | 1               |               |
|                          |                        | HDD                                                           | 2 (HDD 1~2)     |               |
| Uplink                   | 1                      |                                                               |                 |               |
| Rear I/O Panel           | PoE Port               | 802.3af                                                       | 12 (Port 1~12)  | 8 (Port 1~8)  |
|                          |                        | 802.3at                                                       | 4 (Port 13~16)  | N/A           |
|                          |                        | Total Power                                                   | 220W            | 80W           |
|                          | Composite Input        | N/A                                                           | 8 (Port 9~16)   |               |
|                          | Combo Uplink           | Gigabit Ethernet                                              | 1               |               |
|                          |                        | SFP                                                           | 1               |               |
|                          | Display                | HDMI                                                          | 1               |               |
|                          | Serial                 |                                                               | Rx/Tx           |               |
| DIO                      | Digital Input          | 4 (dry contact)                                               |                 |               |
|                          | Digital Output         | 1 (relay)                                                     |                 |               |
| Physical Characteristics | Form factor            | 1U                                                            |                 |               |
|                          | Dimensions (W x L x H) | 450 x 426 x 44.6mm                                            |                 |               |
| Power Management         | Input                  | 100 - 240 V <sub>AC</sub>                                     |                 |               |
|                          | Output                 | Voltage                                                       | 53V/12V         | 53V/12V       |
|                          |                        | Current                                                       | 6.5A/9.0A       | 4A/7A         |
|                          |                        | Wattage                                                       | 450W            | 296W          |
| Environment              | Temperature            | Operation                                                     | 0 to 40° C      |               |
|                          |                        | Storage                                                       | -20 to 70° C    |               |
|                          | Humidity               | Operation                                                     | 20% to 90 % RH  |               |
|                          |                        | Storage                                                       | 5% to 95 % RH   |               |

## Dimensions

Unit: mm



## Ordering Information

| Part Number     | Product Description             | PoE Ports | Composite Inputs |
|-----------------|---------------------------------|-----------|------------------|
| NVS-160EP-SA31E | DSP based IP Video Recorder     | 16        | N/A              |
| NVS-160EH-SA31E | DSP based Hybrid Video Recorder | 8         | 8                |

## Optional Accessories

| Part Number     | Product Description                |
|-----------------|------------------------------------|
| SFP-GZX/LC-70E  | 1000Base-ZX Single mode SFP module |
| SFP-GSX/LC-AE   | 1000Base-SX Multi mode SFP module  |
| SFP-GTX/RJ45-AE | 1000Base-T RJ45 SFP Module         |

## Packing List

| Item            | Quantity |
|-----------------|----------|
| Terminal plug   | 2        |
| HDD screw       | 8        |
| Power cord      | 1        |
| Rank mount kits | 1        |