

Specifications

System

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|-----------|--|
| Processor | 24-core Arm Cortex-A53 Processor (Foxconn FXN3102) |
| Memory | 1 DDR4 2133MHz 8GB/16GB ECC SO-DIMM |
| Flash | 1 SPI Flash, 512MB |
| EEPROM | 1 SPI EEPROM, up to 512KB |
| OS | Ubuntu Server 18.04 LTS |

AI Accelerator

| | |
|-----------|---|
| Processor | - VAC-1000 : Lightspeeur® 2801S Neural Accelerator, up to 5.6 TOPS - VAC-1100 : Hailo-8™ AI Processor, up to 26 TOPS |
| Framework | - VAC-1000 : TensorFlow, Caffe, PyTorch - VAC-1100 : TensorFlow, ONNX |

I/O Interface

| | |
|-----------|--|
| USB | 2 USB 3.0 Type A |
| Micro USB | - 1 Micro USB console port for debug (External) - 1 Micro USB console port for firmware update (Internal) |
| LED | Power, SSD |

Storage

| | |
|------|-------------------------------------|
| SATA | 1 SATA III (6Gbps) |
| M.2 | 1 M.2 Key M Socket (2280, PCIe) |
| eMMC | 1 64GB eMMC, supports MMC4.41/HS200 |

Ethernet

| | |
|-------|--|
| LAN 1 | 10/100/1000 Base-T Ethernet GigE LAN with IPMI, RJ45 connector |
| LAN 2 | 10/100/1000 Base-T Ethernet GigE LAN, RJ45 connector |

Power

| | |
|-----------------|---|
| Power Input | DC 9V to 55V |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |

Software

| | |
|------------------|--|
| Operation System | - Ubuntu Server 18.04LTS(Linux kernel 4.14.0) - Supports bootup from Flash drive / eMMC - Supports backup from Flash drive - File System : EXT4 |
| Toolchain | gcc-linaro-6.4.1-2017.11-x86_64_aarch64-linux-gnu |
| Script Language | Python |

Mechanical

| | |
|------------|--|
| Dimensions | 170mm x 118mm x 40mm (6.7" x 4.6" x 1.6") |
| Weight | 0.9 kg (2.0 lb) |
| Mounting | - Wallmount by mounting bracket - DIN Rail Mount (Optional) |

Environment

| | |
|-------------------|---|
| Operating Temp. | 0°C to 55°C (32°F to 131°F) |
| Storage Temp. | -40°C to 85°C (-40°F to 185°F) |
| Humidity | 5% to 95% Humidity, non-condensing |
| Relative Humidity | 95% @55°C |
| Shock | - IEC 60068-2-27 - SSD : 50G @wallmount, Half-sine, 11ms |
| Vibration | - IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis |
| EMC | CE, FCC, EN50155, EN50121-3-2 |

Order Information

| Model | CPU | GigE LAN | USB 3.0 | M.2 | SSD Bracket | AI Accelerator |
|----------|-----------------|----------|---------|-----|-------------|----------------|
| VAC-1000 | Foxconn FXN3102 | 2 | 2 | 1 | 1 | Lightspeeur® |
| VAC-1100 | Foxconn FXN3102 | 2 | 2 | 1 | 1 | Hailo |

Memory List

| Model Name | Capacity | Speed | ECC |
|------------------|----------|-------|-----|
| 8GB ECC SO-DIMM | 8GB | 2400 | Y |
| 16GB ECC SO-DIMM | 16GB | 2400 | Y |

Optional Software

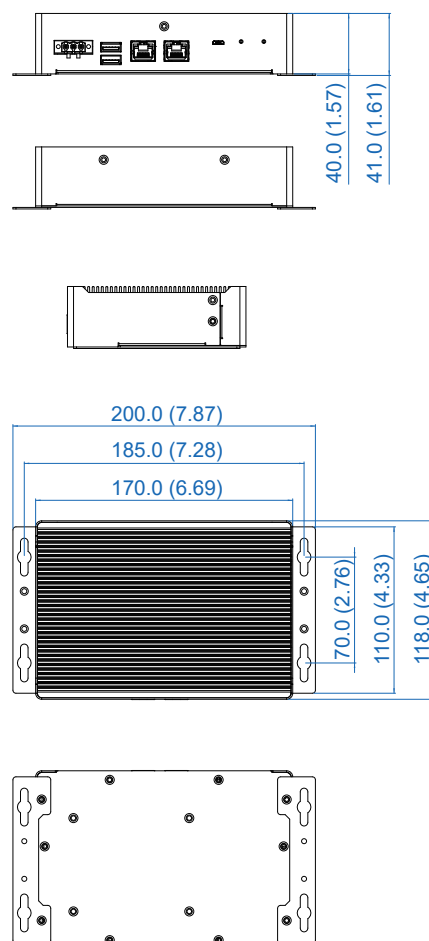
| | |
|----------------|--|
| NX Witness VMS | Network Optix IP Video Management System (VMS) and Video Surveillance Software |
|----------------|--|

Accessories

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|--------------------|--|
| PWA-60WP3 | 60W, 24V/2.5A 90V AC to 264V AC Power Adapter with 3-pin Terminal Block |
| PWA-60WP3-WT | 60W, 24V/2.5A 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| DIN-RAIL | DIN Rail Kit |
| M.2 Storage Module | M.2 Key M PCIe Storage Module |

Dimensions & Drawing

Unit : mm (inch)



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