



ALL2289

ARM 6 Cores Embedded System
Network Video Recorder
Support 3.5 " HDD





Network Ports and Protocols

- 1 Gigabit Ethernet port supporting IEEE 802.3 1000BASE-T, 100BASE-T, 10BASE-T Protocols
- Located in the backside of the device

Display Port

- One HDMI port for connecting to external display
- Support 480p/480i/576p/576i/720p/1080p/1080i/4k
- Support RGB/YUV420(up to 10bit) format
- Located in the backside of the device

USB Ports

- 2 USB ports (one USB 2.0 and one USB3.0) for supporting additional external hard drives or IO devices.
- Capable of delivering 0.5A max per port
- USB ports are located in the backside of the device.

SATA Port

- System board includes one SATA port to connect 3.5" hard disk drive.
- Support SATA 3.0 spec- capable of supporting up to 6.0Gb/s
- Access port by removing the mechanical housing of the device.
- Support below HDD format: FAT32, NTFS, exFAT, EXT4, EXT3.

M.2 Interface

- M.2 Key E form factor supporting Modules such as 11AC WIFI module or Edge TPU card
- Access port by removing the mechanical housing of the device.

Physical Reset Button

- One reset button is available to reset the device.
- Short press for software reboot.



LEDs

- Power: On - Green
- HDD: HDD ready - Green. Busy/Activity - Blink
- System LED - Red. On when system is in abnormal state
- Network Ports: Link - Green. Activity - Yellow. Note: LEDs for network port is built-in into the RJ45 phone jack.

SoC Specification

- CPU - ARM Dual Cortex-A72, frequency 1.8Ghz with quad Cortex-A53, frequency 1.4Ghz
- GPU - ARM Mali-T860MP4 GPU, support OpenGL ES1.1/2.0/3.0/3.1/3.2, OpenCL1.2, DirectX11.1 etc
- 2GB DDR4 (memory shared with GPU)
- Video Engine:
 - Video decoding - supports decoding speed up to 1080p@60fps
 - Video encoding - supports encoding speed up to 1080p@30fps
 - Supports picture size 3840x2160
 - Supports format - MPEG1/2, MPEG4 SP/ASP/GMC, H.263, H.264 BP/MP/HP, VP6/8, AVS jizun, JPEG
- Support 32 bit and 64 bit Linux OS

Mechanical Specifications

- Power: 14.25W 12V/3A AC 100-240V
- Dimensions: 190 (l) x 115 (w) x 45 (h) mm
- Operating temperature: 0° to 50°C
- Storage temperature: -20° to 80°C
- Operating humidity: 90% maximum relative humidity, non-condensing
- Storage humidity: 95% maximum relative humidity, non-condensing



Software Features (Nx Witness VMS)

- Embedded Linux OS supports up to 8 IP cameras recording as NX NVR server.
- 2 Minute Installation
- Automatic Device Discovery & ONVIF Support
- Automatic Server Discovery
- Simplified Network Configuration
- Single & Multi-Camera Recording/Archiving Scheduling
- Smart Motion Detection
- Dark & Light User Interface
- Customizable Viewing windows Layouts
- Video Controls
- Flex Timeline
- Customizable User Management
- Assigning Views to Users
- Drag & Drop Camera Assignment
- No Single Point of Failure
- Events, Actions and Notifications
- System Logs
- Calendar Search
- Preview (aka time-slice) Search
- Thumbnails Search
- Video Export
- Universal Fisheye Dewarping
- PTZ Presets and Tours
- Digital Mapping
- Image Enhancement
- Health Monitoring System
- Automatic System Updates
- Nx Cloud