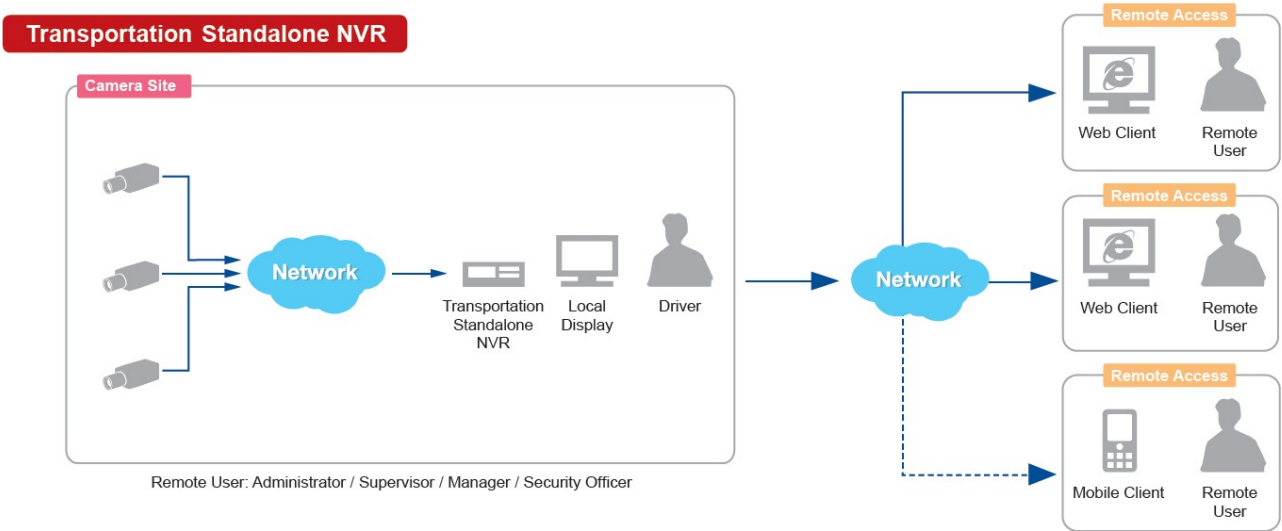


MNR-320P

16-Channel Transportation Standalone NVR with 4-port PoE Connectors

- Built-in PoE Connectors (4 ports)
- Workstation, Web Client, Mobile Client
- Event trigger, response and notification
- Video export formats: RAW, AVI, EXE
- Non-ACTi camera support via licensed Camera Device Pack

Solution Diagram



Specifications

| Device | |
|---------------------------------|---|
| Product Type | Standalone NVR |
| Maximum Resolution | Support all ACTi cameras in all resolutions |
| Maximum Number of Video Devices | 16 |

| | |
|--|----------------------------------|
| Maximum Number of POS devices | 16 (requires additional license) |
| Maximum Number of Access Control and Network I/O devices | 16 (requires additional license) |
| Maximum Number of Clients | Local: 1, Remote: 3 |

Hardware

| | |
|-----|------------------|
| CPU | Intel Atom E3845 |
| RAM | 4GB |

License

| | |
|--------------|--|
| Free License | 16 (16 channels for ACTi and 1 channel for third-party video device) |
|--------------|--|

Live View

| | |
|--------------------------------|---|
| Display Layout Mode | Local:1, 3, 4, 5, 6, 8, 9, 10, 12, 16 Remote:1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom |
| Fisheye Dewarping | Yes |
| Local Live View performance | Please check "Standalone NVR Performance Validator" (http://www.acti.com/SANVRPerformance) |
| Digital Zoom | Yes |
| Event Status | Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full |
| Instant Playback | Instant Playback in live view window |
| Embedded websites in Live View | Display and connect to pre-configured embedded website |

Map

| | |
|----------|---|
| e-Map | Yes |
| Layout | Area maps with camera icons, small live view windows, hyperlinked |
| Setup | e-Map image upload, Google maps settings and preset management, camera positioning, vision angle and pointed direction of camera, view positioning, source positioning, extended devices for Point-of-sale (POS), Access Control, Network I/O, Car Park |
| PTZ Mode | Mouse PTZ mode to control e-Map video streams |

PTZ

| | |
|-------------|--|
| PTZ Control | PTZ Control, Speed Control, 32 preset points |
| Joystick | USB based joystick supported |

Video

| | |
|-------------|-----------------------------|
| Compression | H.265, H.264, MPEG-4, MJPEG |
|-------------|-----------------------------|

Audio

| | |
|------------|----------------------------------|
| Audio Type | 2-way, Mic-in, Line-in, Line-out |
|------------|----------------------------------|

Network

| | |
|----------------------------|--|
| Network Protocol & Service | IPv4/v6, TCP, UDP, DHCP Client, HTTP, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, LDAP (client) |
|----------------------------|--|

| | |
|---------------|--|
| Ethernet Port | Total ports: 6 port(s) (WAN) Non-PoE: 2 port(s), Ethernet (1000 Base-T), RJ-45 connector (LAN) PoE: 4 port(s), Ethernet (10/100 Base-T), RJ-45 connector |
|---------------|--|

Recording

| | |
|------------------------------|----------|
| Scheduled Recording | Yes |
| Event Recording | Yes |
| Manual Recording | Yes |
| Event Speed-up Recording | Yes |
| Dual Stream Management | Yes |
| Maximum Recording Throughput | 192 Mbps |

Search & Playback

| | |
|-----------------------|--|
| Playback Control | Continuous forward and backward playback with speeds 1x/2x/4x/8x/16x or frame-by-frame, pause, stop |
| Synchronized Playback | 4 channels (Local), 16 channels (Remote) |
| Recording Search | Search video recordings by time, events, channels, bookmarks, notifications and listed as clickable time-based thumbnails for full-size view and snapshot download |
| Smart Search | Smart search of recorded video by Motion Detection and Tamper |
| Video Export | RAW, AVI, EXE |

Event

| | |
|----------------|--|
| Event Trigger | [NVR]: Disk full, Disk not found, Disk is available, Schedule service start and stop, Video Push start and stop, CPU limit exceeded, [Video Device]: Video motion detection, Passive IR sensor, External device through digital input, Sound detection, Intelligent event detection, Video Push start and stop, Video loss, Video Recovery, Network loss and recovery, [Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status, Car park status |
| Event Response | Pop-up window with live video and event confirmation activation, Switch to hotspot window, Switch to customize view, Command a PTZ device to go to a preset point, Play alert sound, Activate external device through digital output, Execute system command to activate other programs, Upload video or snapshot to FTP server, E-mail notification with snapshots, Push notification |

Redundancy Server

| | |
|--------------------|---|
| Redundancy Service | Yes, N+1 (With limited functions when NVR 3 server acts as Redundancy server) |
|--------------------|---|

System

| | |
|----------------------------|--|
| Permission control | Unlimited number of users, Active Directory, Customizable permissions for user groups, Account lockout, Automatic logout after idle, Playback password protected, Password validity period |
| Client PC Operating System | Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 |
| Server Operating System | Windows 7 Embedded |
| Mobile Client Program | Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Video Push, Event/time based search and playback, Supported device(s) iPhone, Android device |
| USB | 4-Port USB 2.0 |
| Language | Multi-Language |

Integration

| | |
|-------------------------|--|
| Unified Solution | Fully compatible with ACTi cameras, encoders, central management system, TV wall and intelligent video surveillance software |
| GPS Position | Manual setting |
| ONVIF Compliant | Yes, Profile S |
| Web Browser | IE 11 (Please verify that your computer meets the minimum system requirements for Internet Explorer from Microsoft website.) |
| Third-party Integration | Point of Sale (POS), Access Control, Network I/O, Parking Management Station (PMS), (Various optional integrations requiring additional license) |

Storage

| | |
|----------------------------|--|
| System Drive | mSATA SSD, 64GB |
| Storage Bay | SATA, Max. 1 Disk(s) (without storage disks) |
| HDD Size | 2.5" |
| Maximum Recording Capacity | 1TB x1 |
| Supported Storage | Video Recording: SATA disk, iSCSI Video Exporting: iSCSI, USB |

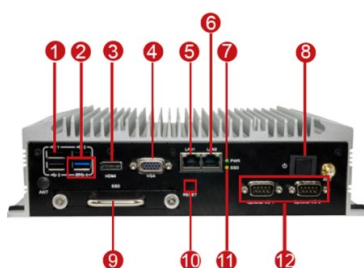
Interface

| | |
|----------------------------|---|
| Wireless | Built-in GPS, mini-PCIe slot x 4 for optional Wireless modules such as Wi-Fi (IEEE 802.11b/g/n), 4G |
| External Storage Interface | USB |
| Local Access | USB joystick, keyboard & mouse |
| Local Display Interface | HDMI x 1, VGA x 1, |

General

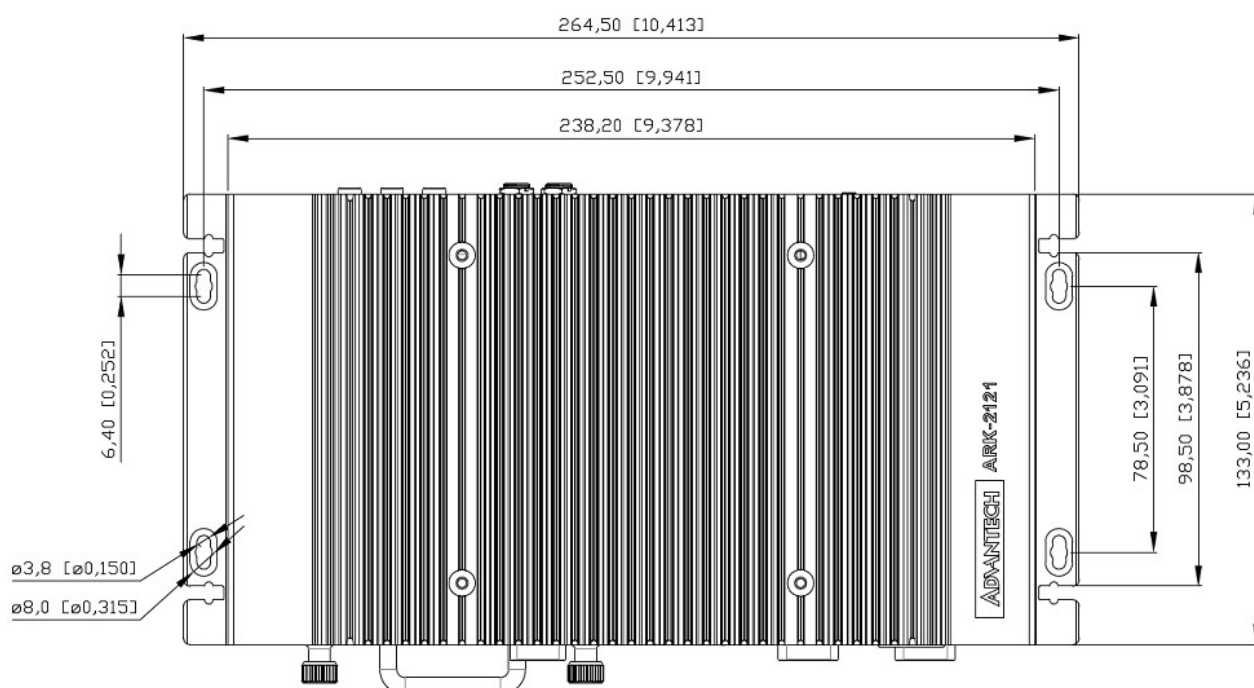
| | |
|-----------------------|--|
| PoE Output | Maximum 15.4 Watts per port |
| PoE Power Budget | Maximum 30 W |
| Power Source | DC 12V, DC 9-36V, adapter not included |
| Weight | 2546.5g (5.614lb) |
| Dimensions | (W x H x D): 264.5mm x 69.2mm x 133mm (10.41" x 2.72" x 5.23") |
| Bundled Accessories | GPS Active Antenna with 5M Cable and SMA Connector |
| Operating Temperature | 0°C ~ 45°C (32°F ~ 113°F) |
| Remote Access | Workstation, Web Client, Mobile Client |
| Approvals | CE, FCC, UL, CCC, BSMI, E-Mark |
| Warranty | 2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

► Photo Indication



- 1 USB 2.0 Ports
- 2 USB 3.0 Port
- 3 HDMI Port
- 4 VGA Connector
- 5 LAN 1 Port
- 6 LAN 2 Port
- 7 Power Status LED
- 8 Power Switch
- 9 HDD Trays
- 10 Reset Button
- 11 HDD Activity LED
- 12 Serial Port
- 13 Power Connector
- 14 Audio Mic-in
- 15 Audio Line-in
- 16 Audio Line-out
- 17 PoE Ports
- 18 Digital Input/Output

► Dimension Diagram



Unit: mm [inch]

▶ Related Products

Power Supply Accessories - Power Adapter

PPBX-0025



MNR-320P Power Adapter

Network & Storage Peripherals - Hard Disk

PHDD-1200



WD WD10JUCT 1TB 2.5" Hard Disk Drive for Data Storage (for MNR-310, MNR-320P, MNR-330P)

Network & Storage Peripherals - Extended Storage Device

PSTR-0403



2U 12-Bay NAS RAID Storage Device (for MNR-320P, MNR-330P, and all GNR and INR Series)

Network & Storage Peripherals - Wireless Module

PWLM-0105



Advantech EWM-C117FL02E 4G LTE / 3G / 2G Wireless Module for all MNR (except MNR-310), IVS-010, ECD-200 (Europe and Asia)

Network & Storage Peripherals - Network IO Module

PIOB-0100



Advantech ADAM-6060 6 Digital Input and 6 Digital Output Network I/O Module

Controllers - Joystick

PJSK-0100



Apem 100-550-BLK-RF Joystick for PTZ Control (for all ENR, INR, and MNR Series)