

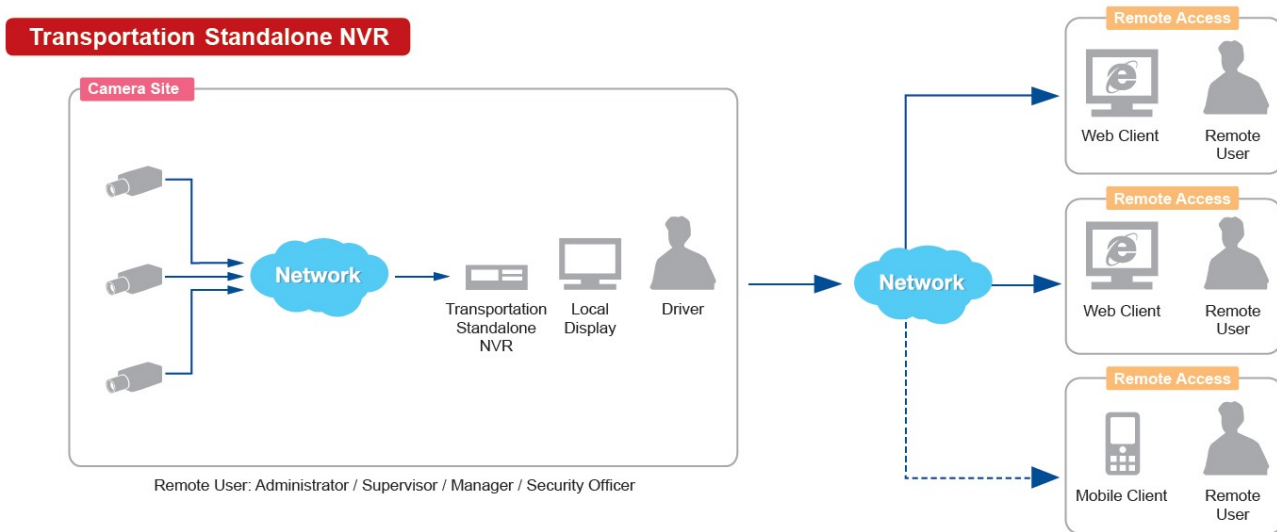
# MNR-310

## 32-Channel Transportation Standalone NVR



- 32 channels, 16 Free Licenses
- Storage Bay(s), Hot Swappable Drive
- SATA, iSCSi, USB
- Transportation Standalone NVR
- Windows 7 Embedded
- Intel Atom D2550
- Audio, HDMI x 1, VGA x 1
- Workstation, Web Client, Mobile Client

### ▶ **\*\*Solution Diagram\*\***



### ▶ **Specifications**

#### Product Profile

Product Type	Standalone NVR
Maximum Resolution	Support all ACTi cameras in all resolutions

Maximum Number of Cameras	32
Maximum Number of Video Devices	32
Maximum Number of POS devices	32 (requires additional license)
Maximum Number of Clients	Local: 1, Remote: 3

**Hardware**

CPU	Intel Atom D2550
RAM	2GB

**License**

License required	Yes
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 (Live View, Playback, Export)
Local Live View performance	Please check "Standalone NVR Performance Validator" ( <a href="http://www.acti.com/SANVRPerformance">http://www.acti.com/SANVRPerformance</a> )
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 (Remote client)
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
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**Audio**

Audio Type	2-way, Mic-in, Line-out
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**Network**

Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP Client, HTTP, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, LDAP (client), iSCSi
Ethernet Port	2 x Ethernet (1000 Base-T), RJ-45 connector
Wireless	Wi-Fi (IEEE 802.11b/g/n), 4G, GPS (require optional accessories)

**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	16 channels (Local), 32 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
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)
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**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
Watchdog	Support
Server Operating System	Windows 7 Embedded
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 and Client PC requirements	Please use <a href="https://www.acti.com/pcselector">https://www.acti.com/pcselector</a> For client PC requirements, please check the Performance: Live View section.

Mobile Client Program	Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Video Push, Event/time based search and playback, iPad, 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
CMS Support	Yes (ACTi CMS 2)
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	SSD, 64GB
Storage Bay	SATA, Max. 2 Disk(s)
Removable Tray	Yes
Hot Swappable Drive	Yes
HDD Size	2.5"
Maximum Recording Capacity	1TB x2
Supported Storage	Video Recording: SATA disk, iSCSI Video Exporting: iSCSI, USB

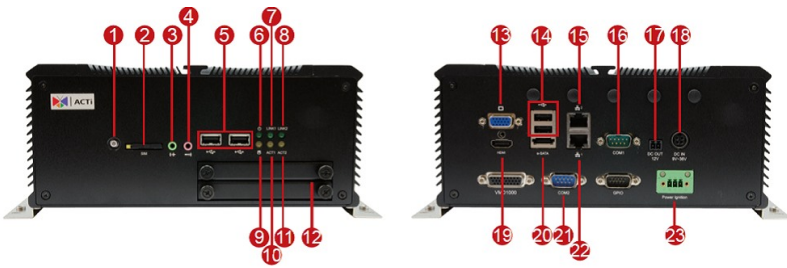
## Interface

Serial Port	1 x RS-232
Audio Interface	1/1, 3.5mm Phone Jack
External Storage Interface	eSATA, iSCSI, USB
Local Access	USB keyboard & mouse, USB Joystick
Local Display Interface	HDMI x 1, VGA x 1

## General

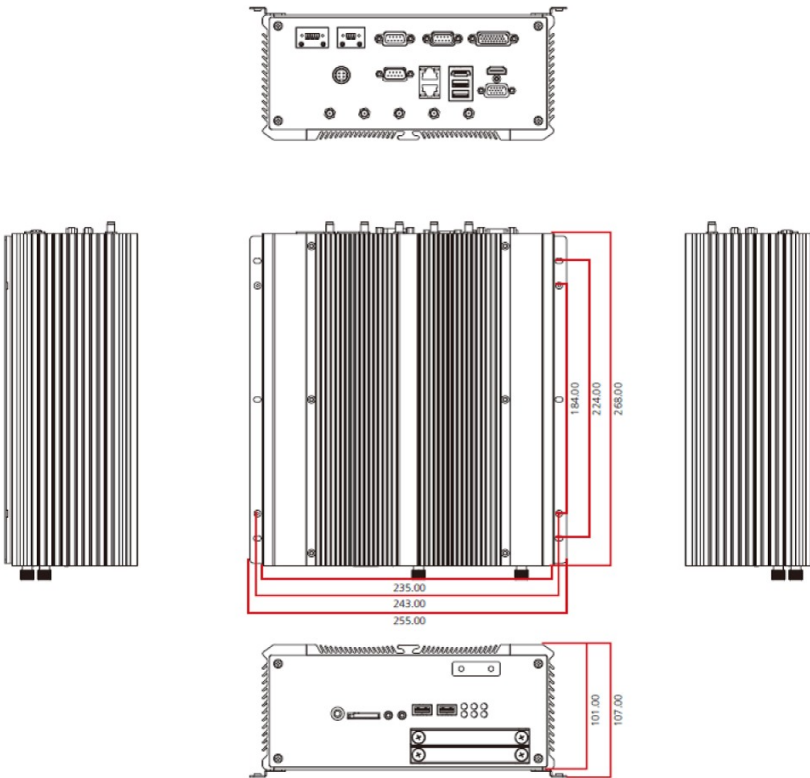
Power Source	DC 9-36V, adapter not included
Weight	5370g (11.839lb)
Dimensions	(W x H x D): 235mm x 101mm x 268mm (9.25" x 3.97" x 10.55")
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	10% - 90% RH, non-condensing
Remote Access	Workstation, Web Client, Mobile Client
Approvals	CE, FCC, E-Mark, UL (for built-in power adapter)
Warranty	2 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a>

## ► Photo Indication



- 1 Power Button
- 2 SIM Card Holder
- 3 Audio Line-out
- 4 Audio Mic-in
- 5 USB 2.0 Ports
- 6 Power Status LED
- 7 Link 1 LED
- 8 Link 2 LED
- 9 HDD Activity LED
- 10 ACT 1 LED
- 11 ACT 2 LED
- 12 HDD Trays
- 13 VGA Connector

## ► Dimension Diagram



Unit: mm [inch]

## ▶ Related Products

### Power Supply Accessories - Power Adapter

PPBX-0007



Power Ignition Control Module for MNR-310

### 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 - Wireless Module

PWLM-0300



GPS Module for MNR 310

### 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)