HAUTESPOT® Networks

Where the network ends, we begin.™

HauteEDGE microNVR™1500 Series

An Intelligent Solution for Remote Video Surveillance

Performance. Compact. Efficient.

Multi-Function and Small

The HauteSpot microNVR™1500 is a revolutionary breakthrough in IP video surveillance technology. It combines a high performance Video Management Server (VMS), a wireless router, a remote sensor monitor, and an open standard application server into one small, easy to install, power efficient package.

Completely Distributed

The microNVR1500 is the first complete video surveillance system designed for distributed applications. Every microNVR1500 is a powerful video processing platform. We start with a full function x64 architecture Quad Core processor, massive 240GB mSATA SSD storage, a GPU capable of processing up to 1080p100 H.264 encode/decode/transcode, and IO ports to support almost any sensor data gathering imaginable.

A Complete Wireless Routing Stack

For communications the microNVR1500 comes with a high gain 2x2 MIMO 2.4/5 GHz radio supported with a complete wireless routing stack. The microNVR1500 can be a wireless client, a wireless mesh node, or a wireless access point, depending on your requirements. And it's 1Gbps Ethernet port allows it to connect to IP cameras or other ethernet enabled devices. You can also use the optional USB 3.0 5MP wide dynamic range camera which can support up to 50fps collection of uncompressed video, supporting real time analytic processing.

Flexible Software Choices

The microNVR1500 gives you freedom of choice in software configuration. It is designed to support virtually any MS Windows or Linux application. HauteSpot Networks offers three VMS solutions for the microNVR1500:

- HiveMINDER™— A simple, low cost, yet powerful VMS solution which provides almost all of the features required by the majority of installations.
- Mobile Video Vault (MVV™) —A comprehensive, intelligent, VMS with storage management and seamless data retrieval. MVV is the perfect solution for large scale applications like municipal, public safety, critical infrastructure and other mission critical requirements.
- MVE™ —A video management system specifically designed for roaming applications where cellular or other inherently unstable networks are used for live situational management. MVE dynamically adjusts network performance to fit the conditions, maintaining a reliable, always on video stream and allowing for "chain of custody" compliant data transfer over cellular.

Any of the three solutions (HiveMINDER, MVV, or MVE) can be deployed using Video Surveillance as a Service (VSaaS) as well. Call us for more details.

Of course, you can also use any VMS solution that runs under Linux or MS Windows.

Applications

- Campus, City Parks, Public areas, and Office parks
- Sports and outdoor events
- Military Perimeter Security
- Oil and Gas Fields, Oil and Gas Platforms
- Transit
- Law Enforcement and Covert Applications

Benefits

- Greatly reduced bandwidth (no need to stream everything at high resolution, only send events and store everything else at the edge)
- No single point of failure
- Simplified installation
- Seamless scalability
- Always record, local storage. Transfer only events
- Completely automatic, no user intervention required
- Fully self contained
- Wide range of backhaul and mesh wireless frequencies supported
- Almost every cellular carrier network supported
- 12 Watts total operating power (typical)

Processor, GPU, and Memory

- Intel x64 architecture CPU
- 4 cores, 4 threads
- 1.91GHz with 2MB L2 cache
- 4GB on-board DDR3DL 1066MHz soldered on
- Quick Sync H.264 hardware acceleration (1080p100 encode/1080p120 decode)

Network and USB interfaces

- 802.11 a/b/g/n high gain 2x2 MIMO radio
- USB 3.0 support for LTE, UMTS, HSPDA, EVDO, GSM Edge cellular wireless modules
- 1 ea 10/100/1000bps Ethernet
- USB GPS module (optional)

Wireless

- **Data Rate:**

  OFDM:

  BPSK. 6Mbps, 9Mbps
  QPSK. 12Mbps, 18Mbps
  16QAM. 24Mbps, 36Mbps
  64QAM. 48Mbps, 54Mbps

  DSSS:

  1,2,5.5, 11Mbps

  MIMO:

  20Mhz 1 Nss
  65Mbps@800Gi
  72.2Mbps@400Gi (Max.)
  20Mhz 2 Nss
  130Mbps@800Gi
  144.4Mbps@400Gi (Max.)
  40Mhz 1 Nss
  135Mbps@800Gi
  150Mbps@400Gi (Max.)
  40Mhz 2 Nss
  270Mbps@800Gi
  300Mbps@400Gi (Max.)

  Channel Width : 5/10/20/40 Mhz
- **Network Standards**

  WECA (Wi-Fi & Wi-Fi5)
  IEEE 802.11, a, g, b, e, f, h, i
- **Compliance**

  FCC Part 15 Class B (modular)
  ETSI 300.328
  ETSI 300 826
  CE mark
  FCC Part 90Y (modular)

Power, Mechanical, Environmental

- Power: +12DVC Input Socket (1A typ.)
- Operating Temp: 0 to 65C
- Storage Temp: -40 to 80C
- Relative Humidity: 5 to 95% non-condensing
- RoHS and WEE compliant

Video and IP

- HDMI 1.4a for HD 1920x1200 output video interface
- 24bit LVDS for integrated display (optional)
- HD Audio and Mic-in
- 1 x USB 3.0 externally exposed
- 5x USB 2.0 on headers available for custom use
- 2x Serial RS232/422/485 headers available for custom use
- Watchdog timer

Storage

- mSATA 64 or 240GB SSD standard
- SATA2 for additional storage available

USB 3.0 5 MP Imager (Optional)

- Max. Resolution: 2560x1920 (Approx. 4,900,000 Pixels)
- Dynamic Range: 66.5dB
- Video Format & Frame Rate:

  15fps @2560x1920 (5MP)
  15fps @2048x1536 (3MP)
  32fps @1920x 1080 (1080p)
  50fps @1280x720 (720p)

Varifocal Lens For 5 MP Imager (Optional)

- Focal length: 3.8mm - 13 mm (3x4x)
- Iris Range: F1.4 - T360 (Equivalent to F360)

Regulatory Approvals/Industry Standards

- CE/FCC/RoHs

Audio

- External Audio input
- Line Out
- Full Duplex Audio

Video Capture (Optional)

- Max. FPS

  30/25fps @ 1920 x 1080p
- Video Input

  1 x HDMI, 1 x DVI-I
- Video Resolutions

  1920x1080p@30/25/24fps to 720x480@60fps
- Audio Input

  HDMI Embedded Audio

Operating System

- Microsoft Windows 7 Pro 64-bit or
- Debian based Linux 64-bit with Cinnamon Desktop

Electrical

- Input to Power Supply 90-240VAC
- Input to PoE Injector from PS: 12VDC@3A
- Power Consumption: 12W, 12VDC@1A peak

Dimensions and Construction

- Size (l*w*h): 129mm x 34mm x 78.4 mm (5.08”x1.34”x3.09”)
- Weight: 800g (1.76 lbs)
- Construction Body and Top: Extruded aluminium

All systems include 90-240VAC to 12VDC PS, cross over CAT5 cable, VESA/wall mounting plate. 2 ea 4dB gain omni antenna with units equipped with wifi

Digital Video Encoding Advanced Feature

The microNVR1500 can be ordered with an optional HDMI/DVI/VGA input capture port. This replaces the wireless interface and allows the microNVR to act as an advanced video encoder, recorder, and remote KVM node for computers, NVRs, DVRs, and other equipment.

Just attach a source device video output to the microNVR input, attach the microNVR to a network connection, and you are ready to stream. Video from the microNVR encoding can be sent as a standard H.264 RTP/RTSP stream to most VMS systems, or it can record into Hive-MINDER™ for longer term storage. This is the perfect solution for community public/private video surveillance, remote system monitoring, central station monitoring, or any application where remote desktop monitoring is required. Call for details on this advanced feature.

Contact Us
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