Specifications

VNR 100

Hardware

1 of 32 bit PCI

1 of PCI-E 2.0 (using x16 slot) 4 of (x4) PCI-E (using x8 slot)

Chipset Embedded Core™ i3-540 Processor, 4 MB cache, 3.06 GHz

RAM 4 GB DDR3, 1333 MHz, ECC Unreg CL9 with TS

Graphics card Integrated, 1 VGA connector

USB ports 4 USB interface

Keyboard/mouse ports (2) PS/2

Media storage (1) 1 TB SATA, 6 Gbs removable

64 MB cache, 7200 rpm, 600 MB/s I/O data transfer rate

Software

Operating system Red Hat® Linux v5.7

VNM Enterprise Controller control functions

NOTE: The VNR100 must be used in conjunction with a VNM Enterprise Controller when full system integration is required.

System configuration and management

- Compression and bandwidth control settings
- Stream selection (video, audio, data)
- Logical grouping of devices
- Preset create and control
- Recording/playback Record, stop
 - Play, pause, stop, play speed x1, x2, x4, x8 (forward and reverse), step (forward

and reverse)

- File management...... Create and delete bookmarks
 - Create and delete recording sessions
 - Create and delete project

Recording/playback

Maximum bit rate (streaming) 150 Mbs, aggregate (simultaneous record and playback)

Simultaneous record and playback.. Yes. Up to maximum aggregate bit rate, when used in conjunction with the VNM

Enterprise Controller.

playback when used in conjunction with the VNM Enterprise controller.

Recording frame rate support

640p, 720p: 60 Hz, 60 fps

1080p: 23.97, 29.94, 30, 60 Hz; 23.97, 29.94, 30, 60 fps

1080i: 23.97, 59.94 Hz; 23.97, 59.94 fps

Storage and bandwidth requirements

Bandwidth From lowest to highest

Datascreens, maps, photographs, static desktop

Typical bit rate: 1 Mbs; approximate capacity: 2100 hours

Static graphic visualizations, aircraft instrument panels

Typical bit rate: 5 Mbs; approximate capacity: 420 hours

Low motion graphic visualizations

Typical bit rate: 10 Mbs; approximate capacity: 210 hours

Windowed video and static graphic information

Typical bit rate: 25 Mbs; approximate capacity: 85 hours

Presentation of HD video, full motion UXGA simulator content

Typical bit rate: 50 Mbs; approximate capacity: 40 hours

Production quality broadcast video — sports

Typical bit rate: 100 Mbs; approximate capacity: 20 hours

NOTE: Audio bit rates are not included in the above.

Audio bandwidth

Compressed (voice quality): 0.5 Mbs (typical)

Embedded audio (VNM 3xx) SD digital video: 8 Mbps/group (4 channels)

HD and 3G digital video: 16 Mbps/group (4 channels)

General

Power supply...... Internal

100-240 VAC, 50-60 Hz

Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 5% to 95%, noncondensing

Operating: +50 to +95 °F (10 to +35 °C) / 8% to 90%, noncondensing

Cooling..... Fan, air flows front to back

Thermal dissipation TBD Lockable front cover Yes

Mounting...... Rack mount

Enclosure type...... Metal

(4.3 cm H x 43.7 cm W x 50.6 cm D)

(Depth excludes connectors.)

Warranty...... 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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