

Nimbra VA 225

Fast and cost-efficient video contribution over internet

NIMBRA VA 225



The next generation of video appliances is here.

Meet the all-in-1 solution for your transition into the future.

In a compact 1 RU form factor, the Nimbra VA 225 combines the advantages of a powerful MPEG encoder and decoder, together with an integrated video transport solution. This powerful combination provides both the operational simplicity of one point of management, as well as a reduction of network complexity – both minimizing potential sources of errors and maximizing service availability.

HIGH-DENSITY MPEG ENCODER

Maximize your resource utilization and do a lot more with less. The Nimbra VA 225 lets you encode and decode up to 4 parallel HD or SD channels per unit. With a flexible configuration of inputs and outputs, the Nimbra VA 225 provides an unparalleled cost-effective solution for remote sites, pair that with our award winning management systems, and you're in full operational control – always. over UDP, TSoIP and extending the reach of the network.

The Nimbra VA 225 supports parallel sending and receiving, MPEG encoding and decoding and can be deployed in a point-to-point, point-to-multipoint, or Daisy chain configuration.

DESIGNED FOR VIDEO, ENGINEERED FOR THE INTERNET

Enable locations world wide using the Internet as transport. Leveraging world class retransmission technology, paired with seamless and adaptive protection mechanisms, the Nimbra VA enables you to extend your business to any location across the globe. With powerful features such as an integrated firewall, advanced video monitoring using TR 101 290, and extremely versatile connectivity options, the Nimbra VA 225 is your ideal partner for remote end sites where space and bandwidth constraints may be challenging.

Together with Nimbra Vision, you have the perfect combination of rock solid performance, and the tools to know exactly how your network is performing. Day after day, year after year.

ONE PLATFORM - FOR PAST, PRESENT, AND FUTURE

The Nimbra VA 225 is your perfect partner to take you through your network transformation journey. Whether it is supporting the ASI interfaces of yesterday, the SDI interfaces of today, or the video over IP interfaces of tomorrow, the Nimbra VA 225 is fully capable to help you transition your network and meet the demands of tomorrow.

Using a powerful combination of multi-purpose ASI/SDI ports, and up to 10 Gigabit Ethernet, you have full flexibility at your fingertips.

CUSTOMER PROVISIONED AND SOFTWARE DEFINED

Allowing customers, applications and workflows to provision and monitor network services themselves provides a level of flexibility never experienced before. Customers provisioning their own services through an online self-service portal increases network usage and reduces provisioning effort and cost to zero. Having live and file-based workflows automatically request transport capacity where and when needed finally enables true media workflow agility.



KEY FEATURES



SIMPLE & SECURE.

Connect anywhere.
Fully loaded with Internet technology makes your media transport both simple & secure.



KNOW YOUR NETWORK.

Leverage off-the-shelf north bound integration for powerful performance monitoring and secure your critical SLAs.



THE CONTENT ENABLER

Backup your existing links, or replace them altogether. Leverage Internet transport as a cost-effective alternative to satellites and leased lines

TECHNICAL SPECIFICATIONS

Transport:

Encoder Input and Decoder Output Formats:
SD-SDI: SMPTE 259M, HD-SDI: SMPTE 292M,
3G-SDI: SMPTE 424M*

Encoder Output and Decoder Input Format:

- Video: AVC/H.264 up to High Profile, level 4.1
- Video: HEVC/H.265 up to High Profile, level 4.1
- Audio: AAC-LC, HE-AAC, MPEG-2 layer II and AES3
- Container format: MPEG-TS
- Resolutions: SD 480 and 576. HD 720 and 1080
- Scan mode: Progressive and interlaced
- Frame rates: 25, 29.97, 30, 59.94, 50, 60 fps
- Chroma format: 4:2:0
- Sample bit depth: 8-bit

Error protected media transport:
Unicast UDP/IP

Media transport ingest or hand-off:
FEC SMPTE 2022-1
TSolP (UDP/IP), unicast or IP-Multicast

Interfaces:

Nimbra VA 225: Error protected media transport, Input/output:
2x Gigabit Ethernet, 1000BASE-T, RJ45
2x 10Gigabit Ethernet*, 10GBASE-T, RJ45

Native interfaces: 4x DIN 1.01 2.3, 75 ohm, 1x DIN 1.01 2.3, 75 ohm
Genlock input

Performance Monitoring: ETR 290, TR-101 290 Priority 1 & Priority 2

Management: SNMP (v1/v2c/v3), Web GUI, Nimbra Vision, CPN
with ScheduALL

Power: 200W Low Noise AC-DC gold level power supply

Environmental Conditions:

Operating temp: 5 to 35 °C (41 to 95 °F)
Storage temp: -40 to 70°C (-40 to 158 °F)
Relative humid: 8% to 90% (non-condensing)

Regulatory compliance:

Safety: IEC/UL/EN 60 950-1
EMC: FCC part 15B, EN 55022, EN 55024, EN 55103-2,
EN 55032, EN 61000-3-2, EN 61000-3-3
CE marking: 768/2008

Dimensions:

Dimensions: HxWxD: 43mm(1,7") x 437mm(17,2") x 287mm(11,3")
Weight: 4,56 kg (101 lbs)
Rack mount: 1RU, IEC 60297 (19")

Ordering information:

- NPK0036-AW01 Nimbra VA 225 Base Unit
- NPK0037-HD01 Nimbra VA H264 HD Starter Pack
- NPK0037-SD01 Nimbra VA H264- SD Starter Pack
- NPK0037-HEH1 Nimbra VA H265 HD Starter Pack
- NPK0037-IP01 Nimbra VA IP Starter Pack
- NPK0039-HB01 Nimbra VA Data Center Starter Pack
- NPM0039-TS02 Protected Stream
- NPM0039-HS01 Data Center Protected Stream
- NPM0039-HS10 Data Center Protected Stream 10-pack node bundle
- NPM0043-SD02 H264 SD enc inc MPEG Layer II/audio passthrough
- NPM0043-HD02 H264 HD enc inc MPEG Layer II/audio passthrough
- NPM0043-DE02 H264 decode inc MPEG Layer II/audio passthrough
- NPM0043-HEH1 H265 HD enc inc MPEG Layer II/audio passthrough
- NPM0043-HED1 H265 decode inc MPEG Layer II/audio passthrough
- NPM0043-AA02 AAC audio encoder/decoder
- NPM0039-TR02 TS monitoring Feature License (TR 101 290)
- NPM0035-VA2F Adaptive Link Protection
- NPM0052-STSF SMPTE 2022-1 FEC
- NPM0055-AB1F Network Optimized Encoding
- NPM0003-VA01 Nimbra Vision node license

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