Nimbra VA 210 & Nimbra VA 210 ASI

Robust live media transport over IP

High costs, limited availability and long lease times, either being expensive satellite contribution links or leased land lines, limits the availability of long-tail niche content. Now, with Nimbra VA 210, these problems are easily overcome, by significantly reducing costs and deployment lead-time using robust live media transport over IP networks, in most cases the Internet

Cost-efficient contribution of long-tail content

Increased demand for more content drives a need for more cost-efficient production and contribution. Media providers have long sought to utilize public IP networks to reduce cost. However, quality requirements for professional media delivery has so far been prohibitive.

The Nimbra VA 210 is a video appliance featuring unique mechanisms for robust live media transport over IP. By combining re-transmission with forward error correction (FEC), Nimbra VA 210 maintains the integrity of the media stream, regardless of the underlying IP infrastructure. Nimbra VA series allows for reliable media transport over best-effort IP.

Operational Excellence

The Nimbra VA series is designed for operational efficiency. Firewall-friendly security mechanisms ensure easy and secure deployment. Integrated performance monitoring allows operators to verify the integrity of the video stream according to TR 101 290, at both ingress and egress interfaces. This is in particular useful for video quality assurance, SLA management and troubleshooting.

In addition to local web based management, the Nimbra VA 210 provides an SNMP interface for integration with 3rd party management systems. Services are easily setup and monitored end-to-end using e.g. the Net Insight Nimbra Vision NMS. Further, Nimbra VA 210 includes VPN functionality for independent and secure remote management over public IP networks.

With the Nimbra VA 210, service providers and broadcasters can significantly reduce cost for first-mile connectivity and shift resources from transmission to content creation to improve their service offerings and attract new target audiences.

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KEY FEATURES

Robust live media transport over IP.
Nimbra VA significantly en- hances the transport properties of the underlying IP infrastruc- ture, enabling reliable live video transport over public IP networks, such as the Internet.

Reducing costs and deployment lead time.
Nimbra VA series dramatically reduces transport costs and deployment lead times compared to satellite or leased land lines. With Nimbra VA, broadcasters and media operators can reach more content and address a broader audience.

Integrated end-to-end management.
The Nimbra VA is integrated into Net Insight's comprehensive network management system, Nimbra Vision, for end-to-end management, monitoring and easy-to-use service provisioning. VPN functionality is included to allow for secure remote management over public IP networks.

Efficient service aggregation.
One Nimbra VA can receive feeds from many remote Nimbra VA units for efficient first-mile aggregation at a Nimbra PoP.

Integrity and quality monitoring.
Nimbra VA series includes func- tionality for continuous monitoring of service performance indicators according to TR 101.290 priority 1&2. Each video stream can be monitored individually both at the ingress and egress inter- face, for quality & SLA assurance and troubleshooting.

Support for IP and ASI.
The Nimbra VA 210 comes in two versions to support both IP and legacy ASI encoders. ASI inputs can seamlessly be output over IP at the destina- tion, or vice versa, to provide a flexible migration path for customers with a mixed encoder environment.

Efficient service aggregation.
One Nimbra VA 210 can receive feeds from many remote Nimbra VA 210 units for efficient first-mile aggregation at a Nimbra PoP.

TECHNICAL SPECIFICATIONS

Capacity:

Datacenter version:	
Throughput:	Max. 800 Mbps TS Bandwidth
No. of TS:	Max. 32 protected transport streams

Field Version:

Throughput:	Max. 100 Mbps TS Bandwidth
No. of TS:	Max. 7 protected transport streams

Interfaces:
Nimbra VA 210:

Input/output:	4x Gigabit Ethernet, 1000BASE-T, RJ45
Management:	1x Gigabit Ethernet, 1000BASE-T, RJ45

Nimbra VA 210 ASI:

Input/output:	4x Gigabit Ethernet, 1000BASE-T, RJ45
	4x BNC, 75 ohm
Management:	1x Gigabit Ethernet, 1000BASE-T, RJ45
Input Format:	UDP/IP (all models)
	DVB-ASI EN50083-9 (Nimbra VA 210 ASI only)
Performance Monitoring:	TR-101.290 Priority 1 & Priority 2
Management:	SNMP (v1/v2c/v3), Web GUI, Nimbra Vision
Storage:	1x SATA DoM 16 GB
Power:	200W Low Noise AC-DC gold level power supply
	Data Center Redundant: 400W (1+1) Redundant AC-DC gold level power supply

Environmental Conditions:

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

Regulatory compliance:

Safety:	IEC/UL/EN 60 950-1
EMC:	FCC part 15
	EN 55022, EN 55024, EN 55103-1, EN 55103-2
CE marking:	93/68/EEC

Dimensions:

HxWxD:	43mm(1,7") x 437mm(17,2") x 287mm(11,3")
Weight:	4.99 kg (11 lbs)
Rack mount:	1RU, IEC 60297 (19")
Data Center:	43mm(1,7") x 437mm(17,2") x 508mm(19,98")
Redundant:	15kg (33 lbs)

Ordering information:

NPK0023-D001	Nimbra VA 210 Datacenter version
NPK0023-F001	Nimbra VA 210 Field Version
NPK0023-DA01	Nimbra VA 210 Datacenter Version ASI
NPK0023-FA01	Nimbra VA 210 Field Version ASI
NPK0023-DR01	Nimbra VA 210 Data Center Redundant version
NPM0039-TS01	Additional Transport Stream (8 included in Datacenter Version, 3 included in Field Version)
NPM0039-TR01	TS monitoring Feature License (TR 101.290)
NPM0039-FDUG	Nimbra VA Field Version to Datacenter Version upgrade Feature License (The Field version requires 7+1 transport licenses to be valid for upgrade)
NPM0003-VA01	Nimbra Vision node license

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