

# HIGH PERFORMANCE EDGE SWITCH FOR MEDIA AND BROADBAND NETWORKS

**Nimbra One** is a high performance modular edge and access multiservice switch meeting the demands of broadcasters and service providers in the Professional Media, Cable TV and Broadband Network sectors.

Featuring bandwidth management with guaranteed quality of service and multiservice capabilities, Nimbra One provides a flexible and cost-efficient platform for network operators seeking to offer value-added, high quality voice, data, video and audio services.

Nimbra One has eight slots that can be configured with any mix of trunk or access boards, making it ideal for all cases of access and edge switching.

Nimbra One supports QoS multicast of layer-2 data such as MPEG over Ethernet or ASI as well as flexible options for protection switching. Its optical control plane based on the NimOS software provides easy provisioning and maintenance of services.

Nimbra One can be fitted with a broad range of trunk and access interfaces:

#### Trunks:

- ◆ OC-3c / STM-1
- ◆ OC-3c / STM-1 w FEC
- ◆ OC-12c / STM-4c
- ◆ OC-48c / STM-16c
- ◆ 1 Gbps Optical
- ◆ DS3 / E3

#### Accesses:

- ◆ Gigabit Ethernet
- ◆ Fast Ethernet
- ◆ SDI Studio Video
- ◆ DVB-ASI MPEG Video
- ◆ AES/EBU Audio
- ◆ OC-3 / STM-1
- ◆ E1 / T1 PDH

Nimbra One is currently the central platform of many media-centered network solutions, both in the Professional Media Industry sector and for Telcos who want to extend their service offerings into Triple Play and other new revenue generating areas.



**GUARANTEED DELIVERY OF SERVICES FOR MEDIA AND BROADBAND NETWORKS**



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## KEY FEATURES

The most important characteristics of the Nimbra One are:

- > **Multiservice.** The Nimbra One supports a broad range of services, such as studio and broadcast video, audio, data and voice on the same platform.
- > **Bandwidth management.** The Nimbra One handles bandwidth for services with unsurpassed flexibility. Services such as Ethernet or ASI can have bandwidth allocated with strict quality-of-service in increments of 0.5 Mbps.
- > **Guaranteed QoS.** Services enjoy guaranteed quality of service, independent of network load. This translates into much higher utilization of the infrastructure, without loss of QoS.
- > **Standardized interfaces.** Trunk and Access interfaces follow applicable ITU-T, ETSI, IEEE, SMPTE or Cenelec standards.
- > **Topology agnostic.** The Nimbra One support any network topology, such as point-to-point, rings and mesh. This allows for designing networks that match the actual traffic matrix.
- > **Carrier class.** The Nimbra One is designed to meet demanding operator requirements on availability and ease of handling. It has flexible options for protection switching, extensive fault and performance monitoring and hot swap of interfaces.
- > **Multicast support.** The Nimbra One supports point-to-multipoint distribution of video, audio, data and voice in a simple and topology independent manner with guaranteed QoS.
- > **Extensive management options.** The Nimbra One can easily be managed by CLI, Web GUI or SNMP. Nimbra Vision™ is a tailored Network Management System for Nimbra networks.

## TECHNICAL SPECIFICATIONS:

### Base Unit:

Number of slots 8 (including mandatory Control Module slot)

Non-blocking switching capacity 5 Gbps

### Shelf:

Dimension HxWxD 505 x 482 x 260 / 19,9" x 19.0" x 10.2"

Weight 14 kg / 31 lb

### Power:

Voltage -48 (min -60, max -40) VDC with optional redundancy

Dissipation <300W fully equipped

### Fans:

Replaceable fan tray with 3 fans. Temperature controlled with fault monitoring.

### Control Module:

Control ports Console, serial RS-232, RJ-45  
TCP/IP, 10/100 Ethernet, RJ-45  
Synchronization 2.048/1.544 Mhz, G.703.13, Female SMB, 75 ohm  
Basic SW NimOS  
SW options Value Added Services

### Management:

Element Mgmt Command Line Interface (CLI)  
Web GUI  
Network Mgmt SNMP v2c/v3  
Nimbra Vision™ or 3<sup>rd</sup> party NMS

### Environmental conditions:

Operating temp. 5 to 40 °C (41 to 104 °F)  
(short term) -5 to 55 °C (23 to 131 °F)  
Storage temp. -40 to 70°C (-40 to 156 °F)  
Relative humid. 10% to 90% (non-condensing)

### Regulatory compliance:

Safety UL60950  
EN60950  
EMC FCC 15 Class A  
EN 300 386  
CE marking 93/68/EEC  
NEBS GR-63-Core, GR-1089-Core

### Ordering information:

NPQ0007-0001 Nimbra One Base Unit (includes one -48V Filter Unit and one Power Cable)  
NPS0006-0001 Control Module  
NPA0010-0001 -48V Filter unit (redundant)  
NPA0002-0030 Nimbra One Power Cable for filter unit  
NPA0005-0006 Blind Panel for unused slots  
NPA0044-0001 AC Power Supply Shelf  
NPA0041-0301 300W Rectifier Unit  
NPA0048-0001 Battery Backup Distribution/Fuse Unit  
NPA0045-0015 Battery pack, 15 Ah  
NPA0045-0031 Battery Pack, 31 Ah  
NPA0045-0062 Battery Pack, 62 Ah

## NET INSIGHT - FOR SCALABLE MULTISERVICE NETWORK SOLUTIONS

Net Insight delivers the world's most efficient and scaleable optical transport solution for Broadcast and Media, Digital Terrestrial TV, Mobile TV and IPTV/CATV networks.

Net Insight products truly deliver 100 percent Quality of Service with three times improvement in utilization of bandwidth for a converged transport infrastructure. Net Insight's Nimbra™ platform is the industry solution for video, voice and data, reducing operational costs by 50 percent and enhancing competitiveness in delivery of existing and new media services.

World class customers run mission critical video services over Net Insight products for more than 100 million people in more than 20 countries. Net Insight is quoted on the OMX Nordic Exchange Stockholm. For more information, visit: [www.netinsight.net](http://www.netinsight.net)

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