

HIGH PERFORMANCE MULTI-SERVICE MEDIA INTEGRATED ACCESS DEVICE

Nimbra 340

is a super-charged multi-service access and switching device for demanding video and data applications. With its 2U height form-factor it is ideally suited for use at the customer premises or in co-location POPs.

Nimbra 340 features fixed Gigabit Ethernet and DVB-ASI ports for advanced video and data services and a wide selection of optional plug-in units for other services, or for transport over different media.

Applications range from studio production and contribution to broadcast distribution in CATV, Digital Terrestrial Television or Triple Play networks. Studio applications are typically covered by the GbE and DVB-ASI services complemented with the optional 270 Mbps SDI Access Module for uncompressed video and the AES/EBU module for digital audio. Broadcast applications benefit from the cost-effective built-in GbE and ASI ports and the device has a wide selection of transport interfaces to choose from, ranging from DS-3/E3 to OC-48/STM-16. Nimbra 340 is fully interoperable with the larger Nimbra One and Nimbra 600 series of products for central office applications. It supports automated end-to-end provisioning (uni/multicast) and re-routing resilience against network faults.

The functionality is housed in a slim 2 RU device that can be installed in either a standard 19" rack or stand-alone. Redundant -48VDC direct feeding or 115/230VAC power supplies ensures reliable and trouble-free operation.

Nimbra 340 represents a quantum-leap in advanced video/data functionality housed in a small outline for media networking applications.



COST-EFFECTIVE MEDIA MULTISERVICE ACCESS WITH VERY HIGH FUNCTIONAL CONTENT FOR DEMANDING VIDEO/DATA SERVICES



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KEY FEATURES

The most important characteristics of the Nimbra 340 are:

- > **Multi-service.** The Nimbra 340 supports a broad range of services, such as studio and broadcast video, audio, data, and voice on the same platform.
- > **Bandwidth management.** The Nimbra 340 handles bandwidth for services with unsurpassed flexibility. Services such as Ethernet and 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 to much higher utilization of the infrastructure, without loss of QoS.
- > **Enhanced Ethernet functionality.** Nimbra 340 supports the Ethernet Transport Service that channelizes the Gigabit Ethernet interface into a configurable number of independent channels, each with strict bandwidth management and guaranteed QoS. Each channel can be independently destined to any node in the network.
- > **Switching capability.** The Nimbra 340 supports switching and can thus be configured in any network topology, such as point-to-point, rings and mesh. They can be networked by themselves or together with other Nimbra switches.
- > **Carrier class.** The Nimbra 340 is designed to meet demanding operator requirements on availability and ease of handling. It thus has flexible options for protection switching, extensive fault and performance monitoring and hot swap of interfaces.
- > **Multicast support.** The Nimbra 340 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 340 can easily be managed by CLI, Web GUI or optional Nimbra Vision™ or 3rd party NMS.

TECHNICAL SPECIFICATIONS:

Dimensions (HxWxD)	88mm(3.5")x445mm(17.5")x240mm(9.4") ETSI 300 119 compatible
Number of slots:	2, can be fitted freely with the plug-in modules specified below
Fixed accesses:	
1 x Gigabit Ethernet	SFP port, channelized with QoS BW mgmt, 802.1Q/1p support, QoS multicast support
2 x 2 x DVB-ASI	2 in + 2 out BNC ports, 2 monitoring ports, BW tailored channels, QoS multicast support
Switch capacity:	5 Gbps
Power:	
Voltage	-48VDC with built-in redundancy 115/230VAC with external converter
Dissipation	<80W fully equipped
Synchronization:	
Input:	2.048 or 1.544 MHz, , G.703.13
Output:	2.048 MHz, sinus, G.703.13
Software:	
Basic SW	NimOS
SW options	Value Added Services
Management:	
Element Mgmt	Command Line Interface (CLI) Web GUI
Network Mgmt	SNMP v1/v2c/v3 Nimbra Vision™ or 3 rd party NMS

Environmental conditions:

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

Regulatory compliance:

Safety	UL60950-1 EN60950-1
Laser safety	CFR 21 1040.10/11
EMC	FCC 15 Class A EN 300 386
CE marking	93/68/EE

Available plug-in units:

Access	2 x 2 x SDI Video Access 8 x ASI Transport Access 8 x AES/EBU Audio 1 x Gigabit Ethernet (SFP) 8 x Fast Ethernet 4 x OC-3/STM-1 (STS-1/STS-3c/VC-4) 8 x PDH E1 8 x PDH T1
Trunk	2 x OC-48c/STM-16c 2 x OC-12c/STM-4c 4 x OC-3c/STM-1 (optional FEC) 4 x DS3/E3 1 x 1Gbps Optical

Ordering information:

NPQ0011-DW01	Nimbra 340 Base Unit
NPA0031-3401	AC/DC Converter

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

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