High performance multi-service media integrated access device

NIMBRA 340

Nimbra 340 is a super-charged multi-service access and switching device for demanding video and data applications. With its 2U height form-factor, the Nimbra 340 is ideally suited for use on-site with customers or in co-location POPs.

The Nimbra 340 features fixed Gigabit Ethernet and DVB-ASI ports for advanced video and data services, as well as 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 Terrestial Television or IPTV 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. In addition, the AES/EBU module provides digital audio delivery of the highest standards.

Broadcast applications benefit from the cost-effective built-in GbE and ASI ports. There are also a wide selection of transport interfaces to choose from, ranging from DS-3/E3 to OC-48/STM-16. The 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 rerouting 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 as a stand-alone installation. Redundant -48VDC direct feeding or 115/230VAC power supplies ensures reliable and trouble-free operation. The Nimbra 340 represents a quantum leap foward in advanced video/data functionality housed in a small outline for media networking applications.

Cost-effective media multi-service access packed with features for demanding video/data services.

net insight™

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NIMBRA 340

KEY FEATURES

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 QoS 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. This 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 connected 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. The devices 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. Therefore, it has flexible options for protection switching, extensive fault and performance monitoring – as well as 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, 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 3rd party NMS

Environmental Conditions:	
Operational temperature (short term)	5 to 40 °C (41 to 104 °F) -5 to 55 °C (23 to 131 °F)
Storage temperature	-40 to 70 °C (-40 to 156 °F)
Relative humidity	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) 4 x DS3/E3 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 4 x DS3/E3 3 x IP/Ethernet
Ordering Information:	
NPQ0011-DW01	Nimbra 340 Base Unit
NPA0031-3401	AC/DC Converter

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