

### High Density Analog VoIP Gateway

The Nuera MP-1288 is a best-of-breed high-density analog media gateway. It offers a cost-effective solution for organizations transitioning to all-IP that need to integrate large numbers of analog devices (such as legacy phones, fax machines and modems) into their new infrastructure. The MP-1288 enables these organizations to protect the investment made in their analog devices and cabling while enjoying the functional and cost benefits of the move to an all-IP infrastructure.



Fully interoperable with leading softswitches, unified communications (UC) servers and SIP proxies, the MP-1288 is ideal for service providers, hosted UC operators, the hospitality sector and large enterprise campuses.

#### 288 FXS Ports | 3U Chassis | Dual Power Supplies | Comprehensive Interoperability



##### High resiliency

Call survivability for all analog FXS extensions and for additional external IP phones



##### Advanced line capabilities

Short and long haul up to 7.5 km, integrated surge protection for FXS



##### Emergency phone support

Support for emergency/elevator phones that require higher loop current and increased ring voltage



##### SBC functionality

SBC capabilities for survivability and connection to SIP trunks



##### Enhanced security

SRTP on all channels without capacity hit



##### Fax support

Extensive fax support including T.38 version 3



## Specifications

System Capacity			
<b>Telephony Capacity</b>	288 FXS ports. Four available capacity options: 288, 216, 144 and 72 ports		
<b>SBC Capacity</b>	300 SBC sessions, 350 registered users		
Hardware Elements			
<b>CPU Module</b>	Providing the central processing unit with two 100/1000Base-T (Gigabit) Ethernet ports (RJ-45) and 1+1 Ethernet port redundancy		
<b>FXS Blades</b>	4 FXS blades, each blade supports 72 FXS ports FXS connection via three 50-pin CHAMP connectors per FXS blade Lifeline support - automatic switching to PSTN via 3 dedicated lifeline interfaces per FXS blade		
Network Protocols			
<b>IP Transport</b>	IPv4, IPv6 for media and control, RTP/RTCP per IETF RFC 3550, RTCP-XR		
<b>Control</b>	SIP (RFC 3261) over UDP, TCP and TLS (1.2)		
<b>Media</b>	RTP (RFC 3550), SRTP (RFC 3711), RTCP (RFC 3550), RTCP-XR (RFC 3611)		
Voice Capabilities			
<b>Voice Over Packet</b>	G.168-2004 compliant echo cancellation, packet loss concealment, dynamic programmable jitter buffer, silence suppression/comfort noise generation, RTP redundancy, broken connection detection		
<b>Voice Compression</b>	G.711, G.723.1, G.726 ADPCM, G.727 ADPCM, G.729A/B, G.722, AMR-NB, Opus-NB		
<b>Fax-Over-IP</b>	Bypass, T.38 and T.38v3		
<b>3-Way Conference</b>	3-way conference with local mixing across all FXS blades		
Signaling			
<b>Message Manipulation</b>	Ability to add/modify/delete SIP headers and message body using advanced regular expressions (regex)		
<b>Routing Methods</b>	Request URL, IP address, FQDN, ENUM, advanced LDAP, third-party routing control through REST API		
<b>Routing Features</b>	Least-cost routing, call forking, load balancing, emergency call detection and prioritization		
Management			
<b>OAM&amp;P</b>	Web GUI, SSH/Telnet, SNMP v2/v3, INI file, REST API		
Power			
<b>AC Input Voltage</b>	100 - 240 V AC		
<b>Max. AC Input Current</b>	10 A		<b>AC Input Frequency</b> 50/60 Hz
<b>Redundant Power Supply</b>	Dual feed, redundant power supply modules		
<b>Max. Power Consumption</b>	FXS Interfaces		Short Haul (W)
	288		450
	216		400
	144		350
		Long Haul (W)	
		950	
		770	
		600	
Physical			
<b>Width</b>	17.24 inches (438 mm)	<b>Height</b>	5.16 inches (131.2 mm)
<b>Depth</b>	17.75 inches (451 mm)	<b>Weight</b>	21 Kg (fully populated system)
<b>Mounting</b>	3U, 19-inch rack		
Environment			
<b>Temperature</b>	Operational Temp.: 0 to 40°C (41 to 104°F)	Storage Temp.: -40 to 70°C (-40 to 158°F)	Humidity: 5 to 90% non-condensing
<b>Cooling</b>	Front-to-rear air flow		
Management			
<b>OAM&amp;P</b>	In-band signaling DTMF (TIA 464B), out-of-band pulse signaling		
<b>FXS Loop Impedance</b>	Up to 1500 ohm (including phone impedance)		
<b>Off-hook Loop Current</b>	25 mA max. on all ports (35 mA max. on two ports per FXS blade for emergency/elevator phones)		
<b>Ring Voltage</b>	- 54Vrms Sinewave balanced ringing of up to 288 phones simultaneously - 85Vrms/20Hz – Trapezoid waveform ringing of up to 6 phones per each 12 ports segment Notes: Balanced ringing only, enables simultaneous ringing of 288 phones (72 per FXS blade given REN3 load)		
<b>Ring Frequency</b>	25-100 Hz		
<b>Maximum Ringer Load</b>	Ringer Equivalency Number (REN) 3		
<b>Caller ID</b>	Bellcore GR-30-CORE Type 1 using Bell 202 FSK modulation, ETSI Type 1, NTT, Denmark, India, Brazil, United Kingdom and DTMF ETSI CID (ETS 300-659-1)		
<b>Distinctive Ringing</b>	By frequency (15-100 Hz) and cadence patterns		
<b>Message Waiting Indication (MWI)</b>	High and low DC voltage generation (TIA/EIA-464-B), V23 FSK data, stutter dial tone		



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