# Soundweb OMNI

256p

Open Architecture Digital Signal Processor







The BSS Soundweb OMNI 256p Open Architecture Digital Signal Processor is the most powerful enterprise-grade processor ever developed by BSS. With processing capability that surpasses previous BSS products, the all-new design ensures the seamless handling of today's most complex installations to be future-ready to meet the evolving needs of tomorrow. The 256p features 256x256 Dante/AES67 networked audio channels id either 48kHz or 96kH; enterprise-grade network security support; an onboard scripting engine developed by AMX; 8 GPIO ports (fully flexible); 80 AEC channels; 32 VoIP lines; high precision word clock and BNC clock (in/out); dual redundant power supplies, Dante and HControl; 128 channel internal media player with 500GB SSD; full-color, interactive front panel LCD; and more.

#### FEATURE HIGHLIGHTS

- 256x256 at up to 96kHz Dante/AES67 networked audio channels
- Enterprise-grade network security support
- Onboard scripting engine developed by AMX
- 24/48kHz and 24/96kHz supported bit depth/sample rates
- 8 GPIO ports (fully flexible)
- 80 AEC channels
- 32 VoIP lines
- High precision word clock
- BNC clock (in/out)

- Dual redundant power supplies, Dante and HControl
- 128 channel internal media player with 500GB SSD
- Full-color, interactive front panel LCD
- Choice of centralized or distributed DSP topologies
- Unlimited number of Soundweb OMNI processors can be added to a single project file
- Configurable, controllable and monitorable with AVX software suite
- HARMAN HControl protocol supported
- Public and Private Routing for Dante

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#### **GENERAL SPECIFICATIONS**

POWER	100 - 240 VAC 250W  2.1A @ 120 VAC - 1.1A @ 240 VAC 853 BTU/Hr  2 Mains cords, 2 mains power supplies, full capability with only 1 supply
Voltage Input	100 - 240 VAC
Power Input	250W
Current Input	2.1A @ 120 VAC - 1.1A @ 240 VAC
Heat Output	853 BTU/Hr
Redundancy	2 Mains cords, 2 mains power supplies, full capability with only 1 supply
THERMAL	0.
Operating Temp Range	0° - 45° C
Storage Temp	-20° - 60° C
CONTROL GPIO	
8 channel FLEX	Each GPIO pin can be configured as input or output, analog or logic.
Convenience Power	5V +/- 5%, 300 mA overload protected.
Logic Output	Programmable for high/low (0/5v) binary. 20mA source or sink.
Logic Input	Programmable for voltage threshold, 12V max 10k input resistance to ground.
Analog Output	0 - 12 V DC +/- 2% 10 mA source or sink.
Analog Input	0 - 12 V DC +/- 2% 10k input resistance to ground.
Relay drive	Open Drain drive capable of 60 mA sink. 12V max off voltage.
ACOUSTIC	
Fan Noise	30 dB SPL A-Weighted MAX
	23 dB SPL A-Weighted at Nominal
WORD CLOCK	
Frequencies	48kHz or 96kHz
Accuracy	1 min/yr = 2 ppm
Input	TTL, 75 Ω BNC Connector
Output	TTL, 75 Ω BNC Connector
CONTROL NETWORK	
Connectivity	RJ-45 Gigabit Ethernet (redundant)
Compatibility	HControl
Max Cable Length	100m or 328ft
AUDIO NETWORK	
Connectivity	RJ-45 Gigabit Ethernet (redundant)
Compatibility	Dante and AES67
Capacity	256 channels at 48kHz or 96kHz
Latency	< Set in Dante controller

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#### **GENERAL SPECIFICATIONS (Cont.)**

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