⊕Symetrix

D100 DSP Server

High performance, enterprise level, large scale centralized processing to manage and control high counts of channels and networked devices.

OVERVIEW

The Symetrix D100 DSP Server leverages an HP Enterprise server platform and is purpose-built for large scale systems such as campuses, transportation hubs, museums, business centers, sports and performing arts venues, and more.

The standard base model D100 offers 256 by 256 Dante channels, 64 channels of acoustic echo cancellation (AEC), 32 media playback channels, eight media record channels, and premium audio processing in a single unified system. To cost-effectively extend system performance, on-demand software upgrades are available to expand channel counts and media management capacity.

KEY FEATURES

- 256 × 256 Dante I/O channels, option to add 128 × 128 Dante I/O channel
- 64 channels of acoustic echo cancellation (AEC), option to add 32 AEC channels
- 32 media playback channels, option to add 32 or 96 media playback channels
- 8 media record channels

- Extensive control options via Symetrix SymVue Windows interfaces, T-Series touchscreens, Control Server, W-Series remotes, ARC-WEB interfaces, and TCP/UDP standard
- Lua scripting support standard
- Third-party control via Intelligent Modules

For more information about how the D100 DSP Server audio/video/control functionality is applicable to different environments, refer to the D100 Product Brief

SYSTEM SPECIFICATIONS

Standard Capabilities

Feature	Detail
Operating System	Linux based built for purpose
Audio Engine	Updated premium performance at 48kHZ sampling rate
Dante	256 × 256 I/O channels
AEC	64 channels of acoustic echo cancellation at 256 ms tail length with the latest algorithms
Media playback channels	32
Media record channels	8
DSP Management	Composer Windows application manages all aspects of audio, control, and security
Third-Party Control	Expanded Intelligent Modules for controlling various types of devices

Programming	Support for Lua scripting
Embedded Web Server	Provides remote metering, diagnostics, and configurable ARC-WEB browser-based control
Control Choices	SymVue for Windows, T-Series touchscreens, Control Server, W-Series remotes, ARC-WEB, and TCP/UDP
Remote Monitoring	Symetrix AV-Ops Center
IT Device Management	HPE ILO (Integrated Lights Out)
Security	Secure boot. Boot only from signed drive. Prevents insertion of malware onto drive Hardware Locking. Prevents moving drive to unauthorized server hardware Secure TPM Module. Holds keys in dedicated secure hardware unique to each D100

Software Options

On-demand software upgrade	Detail
Dante 128x128 Channels	Upgrade Dante channels from 256x256 to 384x384 via AV-Ops Center
AEC 32 Channels	Upgrade AEC channels from 64 to 96 via AV-Ops Center
Playback 32 Channels	Upgrade playback channels from 32 to 64 via AV-Ops Center
Playback 96 Channels	Upgrade playback channels from 32 to 128 via AV-Ops Center

System Hardware

Specification	Detail
Platform	HPE ProLiant DL20 Gen11
Processing	Multi-core server class CPU
System Storage Drive	500 GB SSD
Media Storage Drive	500 GB SSD for record and playback
Dante Networking	2x RJ45 1 Gbit/Sec
Control Networking	1x RJ45 1 Gbit/Sec
Management	1x RJ45 ILO port with SNMP support
Additional Specifications	https://www.hpe.com/psnow/doc/a50007009enw

Power

Specification	Detail
Power Supplies	Dual redundant hot-swappable power supplies
Rated Line Voltage	100 to 120 VAC; 200 to 240 VAC
Rated Wattage	500 W

Mechanical

Specification	Detail
Form Factor	1 RU rack mountable
Rack Rail Kit	Included HPE Easy Install Rail 12
Dimensions	1.70 x 17.11 x 15.05 in (4.32 x 43.46 x 38.22 cm) [without rack rails]
Shipping Weight	26.46 lb (12 kg)

Operating Environment

Specification	Detail
Standard Operating Temperature	10° to 35°C (50° to 95°F) at sea level with an altitude derating 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. The maximum rate of change is 20°C/hr (36°F/hr). The upper temperature limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating above 30°C (86°F).
Standard Operating Relative Humidity	8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.
Non-operating Temperature Range	-30°C to 60°C (-22°F to 140°F) Maximum rate of change is 20°C/hr (36°F/hr).
Non-operating Relative Humidity	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

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