

C100 Smart Processor Server

C100 offers high performance, enterprise level, large scale centralized processing to manage and control high counts of networked devices.

The centralized processing of large quantities of IP endpoints including microphones, amplifiers, computers, remote controls, and control screens all within a single component, greatly simplifies designing and deploying solutions that communicate and interact across multiple rooms, floors, buildings, or campuses.

KEY FEATURES

- 256 × 256 Dante I/O channels, option to add 128 × 128 Dante I/O channels
- 64 channels of acoustic echo cancellation (AEC), option to add 32 AEC channels
- 128 media playback channels
- 8 media record channels
- 48 kHz/96 kHz, 24-bit Open Architecture Signal Processing
- 4x 1Gb configurable Ethernet ports
- ILO port and SNMP support
- 500 GB system SSD
- 500 GB dedicated media SSD
- Run multiple independent Signal Flow Spaces on a single system
- Extensive control options via Symetrix Cognio™ DesignOps control screens, TC-Series touchscreens, WC-Series remotes, and TCP/UDP
- Web server for third party control and personal device integration
- Third-party control via extensive driver library and custom Lua scripting
- External Control using JSON-RPC
- Meets modern security standards including encrypted communications, secure boot, secure firmware updates, and hardware locking
- Dual redundant AC power supplies

SYSTEM SPECIFICATIONS

Platform	HPE ProLiant DL20 Gen11
System Management	Cognio DesignOps software
Operating System	Cognio OS, Linux-based
Control of Third-Party Devices	Cognio Driver Library and Custom Lua Scripting
External Control of C100	JSON-RPC
Embedded Web Server	Provides remote metering, diagnostics, and configurable browser-based control
Remote Monitoring	Symetrix AV-Ops Center built on Xyte
IT Device Management	HPE ILO (Integrated Lights Out)
Security	Encrypted communications Support for encrypted Dante Encrypted firmware updates Secure boot Hardware locking
Sampling Rate	48 kHz or 96 kHz
Bit Depth	24 Bit
Dante Networking	2× RJ45 1 Gbit/Sec, switched or redundant
Control Networking	1× RJ45 1 Gbit/Sec
Management	1× RJ45 1 Gbit/Sec ILO port with SNMP support
System Storage Drive	500 GB SSD
Media Storage Drive	500 GB SSD for record and playback

BASE CONFIGURATION

Dante	256 × 256 I/O channels
AEC	64 channels of acoustic echo cancellation at 256 ms tail length with the latest algorithms
Media Playback	128 channels
Media Record	8 channels

SOFTWARE UPGRADE OPTIONS

Dante Channels	Upgrade from 256×256 to 384×384 via AV-Ops Center
AEC Channels	Upgrade from 64 to 96 via AV-Ops Center

Continued...

MECHANICAL SPECIFICATIONS

Form Factor	1U rack mountable
Rack Rail Kit	HPE Easy Install Rail 12 Kit included
Dimensions	1.70 × 17.11 × 15.05 in (43.2 × 434.6 × 382.2 mm) (without rack rails)
Shipping Weight	26.46 lb (12 kg)

POWER

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

OPERATING ENVIRONMENT

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.
Additional Specifications	https://www.hpe.com/psnow/doc/a50007009enw

FRONT PANEL



REAR PANEL

