Proton Duo

Architects and Engineers Specification

The Waves Proton Duo shall be designed exclusively for use with SoundGrid systems. The Proton Duo shall support Ethernet connection for SoundGrid Network. The Proton Duo shall have 2x internal CPU for processing: Host Side and Server Side. The Proton Duo shall have up to 64x64 input and output channels for audio processing of SoundGrid AoIP audio packets. The Host & Server configuration, life cycle management and all programming of the audio processing shall be software configurable over the SoundGrid network protocol via the network by one of the SoundGrid host applications for Windows including but not limited to eMotion LV1, SuperRack, MultiRack, eMotionST and SoundGrid Studio.

Server Side – Back Panel: The Proton Duo shall have two Universal Serial Bus (USB) connections on standard USB type connectors (Service) for emergency boot. The Proton Duo shall have an HDMI connector (Service) for hooking up a monitor for debug purposes.

The Proton Duo shall be rack mountable - 1RU in height, 1/2 rack width - and shall be rack mountable using the optional extension ears (single device) and/or rack mounting system for dual devices. The Proton Duo shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be one year.

Specification Table

Overall Dimensions	Width: 22 cm / 8.7 inches
	Height: 4.2 cm / 1.7 inches
	Depth: 27.7 cm / 10.9 inches
Weight	Device Weight: 2.3 kg / 5.1 lbs
	Package and Device Weight: 3.4 kg / 7.6 lbs
Power Consumption (100~240VAC 50/60Hz) IEC Connector	30W at 100-120V
	30W at 220V
Sampling Rates	44.1, 48kHz
Computer	Host CPU : Celeron J4125 / Server CPU: Celeron J4125 Host RAM: 8 GB / Server RAM: 4 GB Motherboard: mITX-4125A-WV LAN Card: Realtek RTL8411
Connectivity	Host: USB 3.0: 3 ports USB 2.0: 2 ports (Front) & USB 2.0: 2 ports (Back) HDMI: 2 ports & 1 x RJ45 Server: USB 3.0: 2 ports (Service) & HDMI: 1 Port (Service) Switch: 4 x RJ45
Environment	Operating Environment temperature range: 50° to 95°F / 10° to 35°C
	Max Environment temperature: 104°F / 40°C
Compliance	UL, CE, FCC, CB

Physical Diagrams

ALL DIMENSIONS ARE IN MILIMETERS
14/02/2022

H1U PRODUCTS:
PROTON SERVER, PROTON AXIS, CA1000, PROTON DUO