



Titan-R SoundGrid Server



Architects and Engineers Specification

The Waves Titan-R SoundGrid Server shall be designed exclusively for use with SoundGrid systems. The Titan-R Server shall support Ethernet connection for audio I/O and control on an Ethercon connector. The Titan-R Server shall have internal CPU for audio processing. The Titan-R Server shall have up to 256x256 input and output channels for audio processing of SoundGrid AoIP audio packets. The 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 OS X and Windows including but not limited to eMotion LV1, SuperRack, MultiRack, eMotionST and SoundGrid Studio.

The Titan-R Server shall have two Universal Serial Bus (USB) connections on standard USB type connectors for emergency boot. The Titan-R Server shall have an HDMI connector for hooking up a monitor for debug purposes. The Titan-R Server shall have a power on/off button on the front panel. The Titan-R Server front panel also supports two status LEDs to indicate networking and CPU temperature status. The Titan-R Server shall support a removable front panel that can be removed for dust filter cleaning or replacement.

The Titan-R Server shall have a dual, redundant, hot-swappable power supply module with independent power connections. Each module shall be rated at 350 watts independently. Each PSU module shall be capable of delivering sufficient power to run the Titan-R Server at full capacity.



Failure of either power supply module shall result in a visible red warning LED indicating which of the two modules have failed. Removal of the failed module shall cancel the indication and the system shall continue to operate normally, without interruption, on the remaining PSU module. A replacement for the failed module may be inserted at any time and shall automatically restore the PSU system redundancy.

The Titan-R Server shall be rack mountable - 2RU in height, 1 rack width - and shall be rack mountable using the included extension ears. The Titan-R Server shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be one year.



Specification Table

Overall Dimensions	Length (incl. rack ears): 48.3 cm / 19 inches w/o rack ears: 44 cm / 17.3 inches Height: 8.9 cm / 3.5 inches Depth: 36 cm / 14.2 inches Incl. front rack handles: 39.2 cm / 15.4 inches
Weight	Device Weight: 9.2 kg / 20.2 lbs Package Weight: 11.1 kg / 24.4 lbs
Power Consumption (100~240VAC 50/60Hz) IEC Connector	140W at 100-120V 140W at 220V
Sampling Rates	44.1, 48, 88.2, 96 kHz
Computer	CPU: Intel® i9-10900K RAM: 16 GB Motherboard: Gigabyte® W480M LAN: Intel® I225-LM
Connectivity	USB 3.0: 2 ports (Service only) HDMI: 2 ports (Service only) Ethernet: Ethercon connector
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

WAVES ALL DIMENSIONS ARE IN MILIMETERS
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