

251

POWERED ZONE CONTROLLER



OVERVIEW

Designed for in-room and in-rack systems, the 251 Powered Zone Controller contains all the functionality needed to create a great sounding and flexible Hi-Res Audio zone.

With two powerful, cool-running channels of on-board amplification, the Meridian 251 can comfortably drive a pair of loudspeakers or a sound bar with our trade mark fidelity and high resolution performance. With a pair of analogue outputs, you can also run a 2.1 system with a separate subwoofer.

With both digital and analogue inputs, the MQA-enabled Meridian 251 is a hub for distributed audio applications from simple single zone to whole-house distribution. Featuring IP and IR control, this versatile 1U, half-width unit can be easily installed behind a TV or in a rack.

Simple web-based setup page makes for easy, repeatable and quick configuration. Our 251 is also an endpoint for our award-winning Sooloos music management platform as well as offering support for Roon.

PRODUCT HIGHLIGHTS

- 2 x 100W per channel into 4 Ohms (2 x 65W per channel into 8 Ohms), cool-running amplifiers with a high peak output current capability to drive difficult loads and 40kHz true Hi-Res bandwidth.
- Housed in a half-width, 1U tall Aluminium enclosure and available with an optional rack-mount kit or VESA mount bracket, the 251 has multiple installation applications.
- Endpoint for our award-winning Sooloos music management platform, along with Roon support, for a user-friendly Hi-Res Audio experience.

- Built-in MQA decoder, the Meridian 251 fully supports Master Quality Authenticated encoded music playback, guaranteeing a studio master quality experience.
- IP Control allows for seamless integration and flexibility within the home.
- Also includes digital and analogue inputs and line-level analogue outputs.
- Made in Britain and backed by our 5 year warranty.

USER FEATURES

- A significant number of control options are provided on the Meridian 251 Powered Zone Controller, including IP control, native iPad network control app, Meridian Sooloos Control, IR and third party control.
- In addition, the unit's front panel features multiple LEDs to indicate source selection, including one that signals MQA playback
- Configuration via in-built webpage to select all installation options.

TECHNOLOGIES

LIP SYNC

Video processing typically delays the picture. For installations where the audio and video are separated before video processing, the Meridian 251 has adjustable 80ms audio delay to realign the audio with the video.

FIFO RECLOCKING

Clock variations, known as jitter, are one the main causes of unpleasant “glare” in digital audio systems. The Meridian 251 solves this problem with our proprietary jitter reduction technique using a FIFO (first-in first-out) buffer that allows an independent output clock to deliver clock performance that does not rely upon on the incoming signal quality.

DSP UPSAMPLING AND APODISING FILTERS

Almost all audio has been digitally processed, even if it arrives at the Meridian 251 in analogue form. Upsampling allows the Meridian 251's DACs to run at a higher sample rate and achieve their full potential. Upsampling also provides the opportunity to apply apodising correction to ameliorate time-domain errors that have been introduced to the signal by the ADCs or other upstream processing.

MQA

Master Quality Authenticated (MQA) is a revolutionary end-to-end technology that delivers master quality audio in a file that's small enough to stream or download.



REAR PANEL LAYOUT

SPECIFICATION

AUDIO OUTPUTS	<ul style="list-style-type: none">• Speaker outputs on Phoenix connectors• 24-12 AWG Compatible• 2 x 100w into 4Ω nominal load (2 x 65w into 8Ω)• 40kHz Bandwidth• 2-channel line-level analogue output on RCA phono connectors• Twin 192kHz 24-bit DACs
AUDIO INPUTS	<ul style="list-style-type: none">• One 2-channel digital coaxial S/PDIF input. 44.1kHz to 192kHz sampling and up to 24-bit• One 2-channel Meridian SpeakerLink input. 44.1kHz to 192kHz sampling and up to 24-bit• One 2-channel digital optical TOSLINK input. 44.1kHz to 96kHz sampling and up to 24-bit• One 2-channel analogue input on RCA phono connectors• One network input (Ethernet) for connection to Meridian Sooloos or third party control interface
CONTROL SIGNALS	<ul style="list-style-type: none">• IP Control• IR on 3.5mm jack• Meridian Comms
DISPLAY	<ul style="list-style-type: none">• LEDs to indicate source selection and MQA status
POWER	<ul style="list-style-type: none">• Advanced linear power supply: 110–120V ac 50–60Hz 220-240V ac 50-60Hz
DIMENSIONS	<ul style="list-style-type: none">• HEIGHT: 42mm (without feet)• WIDTH: 203mm• DEPTH: 221mm (226mm inc. connectors)• WEIGHT: 2.5kg
RACK-MOUNTING	<ul style="list-style-type: none">• 1U tall rack kit available with space for two units• Optional VESA mount brackets

251 POWERED ZONE CONTROLLER

POWERFUL CONTROL

Designed for use in-room or in-rack, the 251 Powered Zone Controller contains the functionality needed to create a powered Hi-Res audio zone. The Meridian 251 features two powerful, high performance, cool-running 100W Class D Amplifiers that allow this versatile 1U tall product to be easily partnered with any passive loudspeaker. Accommodating both local and distributed audio, whether analogue or digital, the MQA-enabled Meridian 251 is also an endpoint for our award-winning Sooloos music management platform, along with Roon support.

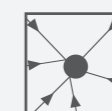
Control features including IP and IR allow this versatile solution to be seamlessly integrated into the home.



THE 251 AT A GLANCE



Speaker-level outputs enable the 251 to work with any passive loudspeaker. Additional line-level outputs provide further flexibility and simple subwoofer integration.



Multiple input options, including optical and coax digital and analogue.



Compact and easy to install – 1U form factor with optional rack kit.



MHR – Unique Meridian High Resolution up-sampling to offer the best possible performance and lossless audio performance from all of your sources.



Lip Sync to realign audio and video following separation.



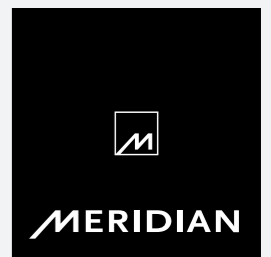
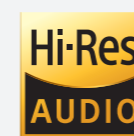
MQA delivers master quality audio in a file that's small enough to stream or download.



IP, IR, Trigger and Third Party control options enable seamless integration and flexibility within the home.



Cost effective solution in multiple installation applications, enabled by Meridian's complimentary Design and Specification Service.





SOOLOOS: ALL MUSIC. ALL THE TIME.

Meridian's award-winning Sooloos delivers pristine lossless audio quality with an extremely intuitive user interface.

It automatically discovers and integrates with your client's network for instant installation. Sooloos is a modular, expandable system designed to suit your needs.



STREAMING
TIDAL, Napster
& Rhapsody



CD LIBRARY
Easy to input & catalogue
over 30,000 CDs



DOWNLOAD LIBRARY
MP3, Flac & Wav



INTERNET RADIO
TuneIn Radio

MERIDIAN SOOLOOS AT A GLANCE



FOCUS

Allows you to move away from text based searching forever. Choose from genres, moods, decades, resolution quality and more to find exactly what you want to listen to.



SWIM

When your queued music comes to an end, Swim will keep the party going. Unique to Sooloos, this is the most sophisticated way to randomise your favourite music.



BROWSE

Effortlessly browse by artist, release date, TuneIn Radio stations or import date using the stunning free iPad or Touch PC interfaces.



EXPLORE

Sooloos offers myriad ways to navigate 30,000 album capacity. Browse by genre, tags, decade, mood, words or ideas. Explore makes it simple to find what you want to hear.



STREAM

Add millions of songs to your collection with major music subscription services, like Tidal, and simply add any music you like to your collection to listen to them time and time again.



TUNE IN

Internet Radio offers a vast catalogue of music, entertainment and information from around the world. Find stations and listen easily and reliably thanks to the integrated TuneIn™ directory.