

QUICK START GUIDE

EVAL_AUDIO_MA12040

Class D Audio Team
March 2019



Product overview and features

Overview

The demonstration board [EVAL_AUDIO_MA12040](#) is an evaluation and demonstration board for MERUS™ audio [MA12040](#). It contains analog inputs and a variety of output and setup/selection features. It also contains two on-board power supply generators (5 V and 3.3 V buck-converted) so only one external power supply (PVDD) is necessary. The board can be used for evaluating or demonstrating key features/advantages of the MERUS™ technology:

- > Energy efficiency: Power losses at typical audio listening levels / Idle power loss
- > Adaptive power management system
- > Minimum output filter components: Significant cost and size reduction.
- > THD performance and audio quality

> General features and audio performance

Number of audio channels	2xBTL, 1xPBTL, 1xBTL+2xSE
Audio input format	Analog
Amplifier gain	20 dB / configurable 26dB
Supply voltage	18 V
Output noise level	<100 uVrms(AW)
Dynamic range	>100 dB
Idle consumption @ PVDD=18V	<16 mA
Crosstalk	<-85 dB
Efficiency, full-scale, 8 ohm	91%

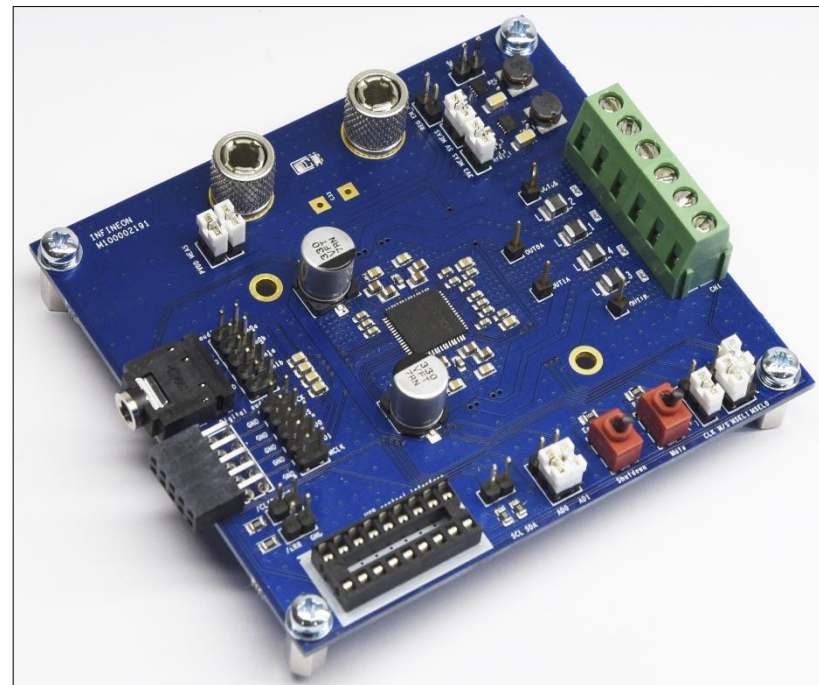


Figure 1. Overview of EVAL_AUDIO_MA12040 evaluation board

Board description

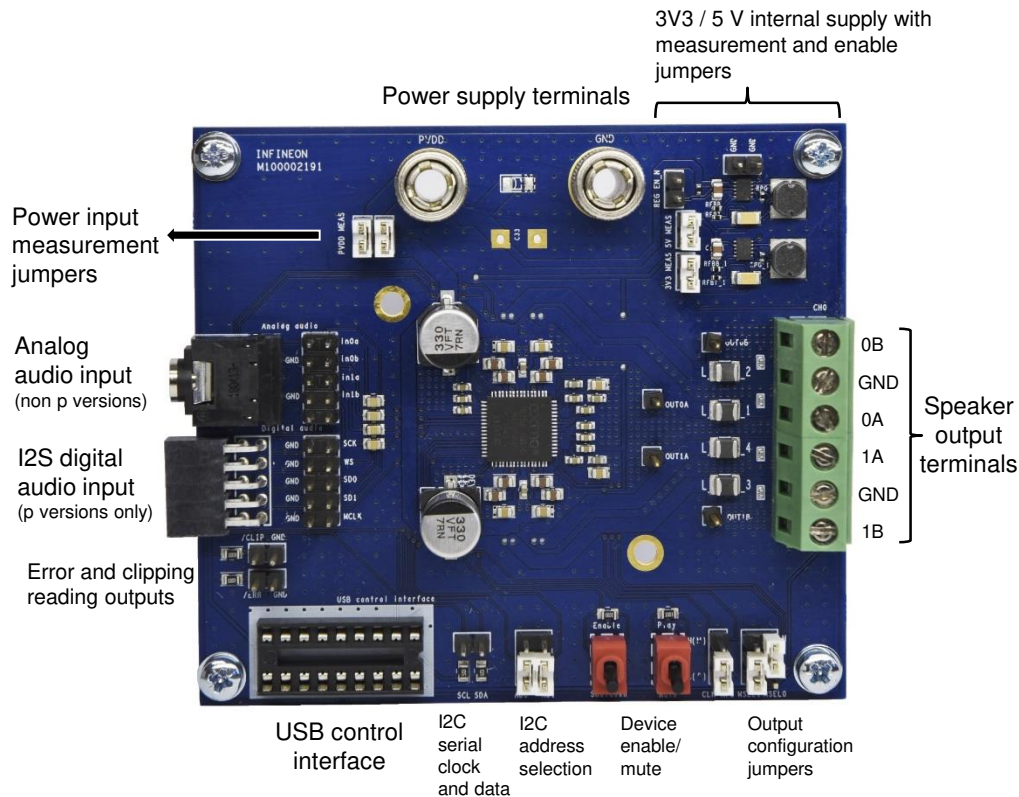


Figure 2. Top board view of EVAL_AUDIO_MA12040

> Recommended operation conditions

Parameter	Part Nr	Minimum	Nominal	Maximum	Unit
PVDD	MA12040	5.5		18	V
Output peak current	MA12040			6.0	A
AC Analog input level IN0A, IN0B, IN1A, IN1B	MA12040			6.0	V _{pk}

> Typical audio and electrical specifications

(BTL default configuration; Power Mode Profile = 0)

Parameter	Conditions	Typ	Unit
Output power p/channel (peak)	THD+N = 10%, RL = 4 Ω, f = 1 kHz	40	W
Output power p/channel (peak)	THD+N = 10%, RL = 8 Ω, f = 1 kHz	20	W
Total harmonic distortion + noise	1kHz, POUT = 1 W, RL = 4 Ω	0.008	%
Total harmonic distortion + noise	1kHz, POUT = 20 W, RL = 4 Ω	0.010	%
Efficiency*	POUT = 2×40 W, 4 Ω, PMP = 0	87	%
Efficiency*	POUT = 2×20 W, 8 Ω, PMP = 0	91	%

* Efficiency values do not take into account the 5 V and 3V3 board power supplies' consumption.

Default configuration for a quick start

Slides 4 and 5 describe the start up and quick start operation procedures with the following configuration:

Single ended audio sources

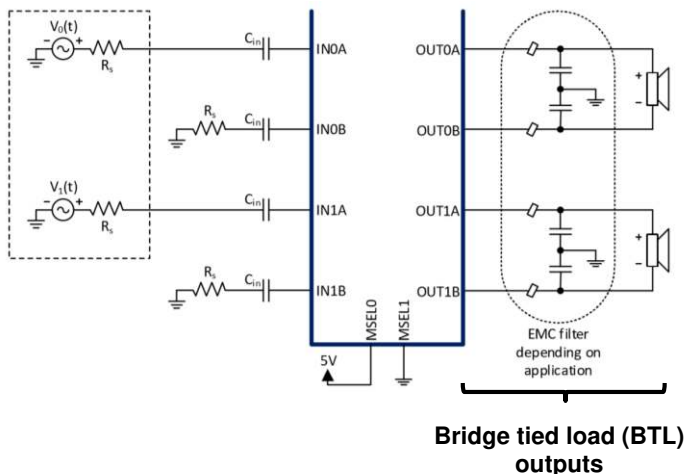


Figure 3. Bridge tied load (BTL) configuration with single ended inputs for MA12040

Note: Please refer to the manual for other Input/Output configurations. Typically balanced/differential inputs should be used to obtain optimum audio performance.

Verify that the jumpers are set in the following positions:

Jumper	State	Picture
MSEL0	H	
MSEL1	L	
CLK M/S	H(M)	
AD0 & AD1	L	
Analog audio	Jack input = all jumpered Balanced input = use individual pints.	
Digital audio	Do not Jumper	
PVDD MEAS	Jumpered	
3V3 & 5V MEAS	Jumpered	
REG EN_N	Do not Jumper	

Power up and start procedure

Although it is not necessary to configure the MA12040 for quick start purposes, the following slides describe also the installation process of its software tool. This will allow to monitor and configure the power mode profiles. Power mode profile 0 is configured by default.

1. Before connecting any source or load (speaker) make sure all of them are turned off.
2. Open your web browser and download the USB control interface drivers from the following [Link](#). Press “setup executable” to download the automatic installation. Run the downloaded file “CDM21228_Setup” and follow the instructions to install the driver. **Do not connect the USB cable while the installing process in running.**

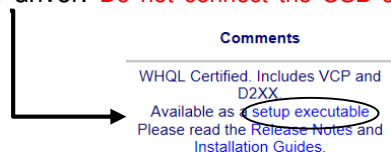


Figure 4. File download for USB control interface drivers

3. Open your web browser and download the software from the following [Link](#). A complete folder will be downloaded with the executable file “MA120xx_GUI” of gui software. — [Software](#)

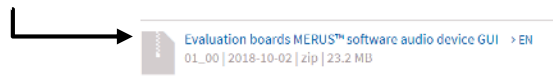


Figure 5. File download for GUI software

4. Make sure toggle buttons are in “shutdown” and “mute” positions.



Figure 6. Toggle buttons set to “mute” and “shutdown”

5. Connect all the sources and speaker/load cables:
 - a) Audio source to the analog audio jack input
 - b) Power source and its ground to PVDD and GND
 - c) Speaker/load to audio output terminals
 - d) USB control interface to the computer.

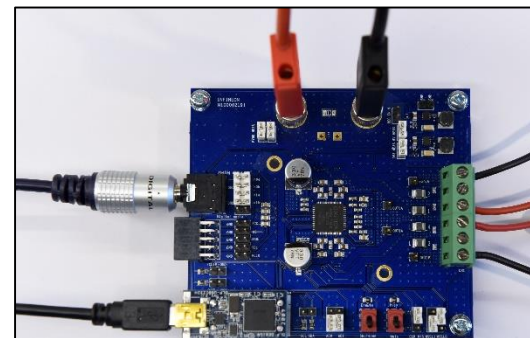


Figure 7. Complete evaluation board connections.

Power up and start procedure

6. Turn on the PVDD supply
7. Start board by setting toggle switch to “enable” position.



Figure 8. Left toggle switch set to “enable” position.

8. Open the “MA120xx_GUI” file to run the monitoring interface.



Figure 9. MA120xx control software interface

9. If the connection was successful it will be indicated in the ID status line:



Figure 10. Control interface indicating a successful communication with the board.

10. Start playing music from your audio source and set the toggle switch to “play” position. You will be able to monitor the modulation index of both channels and the their current power modes. Also, the power mode profiles can be selected. For more information on power mode profiles please refer to the MA12040 data sheet and Infineon MERUS™ evaluation board user’s guide.



Figure 11. Right toggle switch set to “play” position.

Audio measurements set up

The need for an external filter:

MA120xx and MA120xxP are filterless amplifiers enabled by its MERUS™ audio multilevel technique. However, in order to obtain reliable measurements results an external low-pass filter is required in front of the input stage. This is because fast transients in the switching output signal might stress the bandlimited input of measurement instruments. Therefore, slew rate limiting and other distortion artifacts may appear due to this stress if no external filtering is applied.

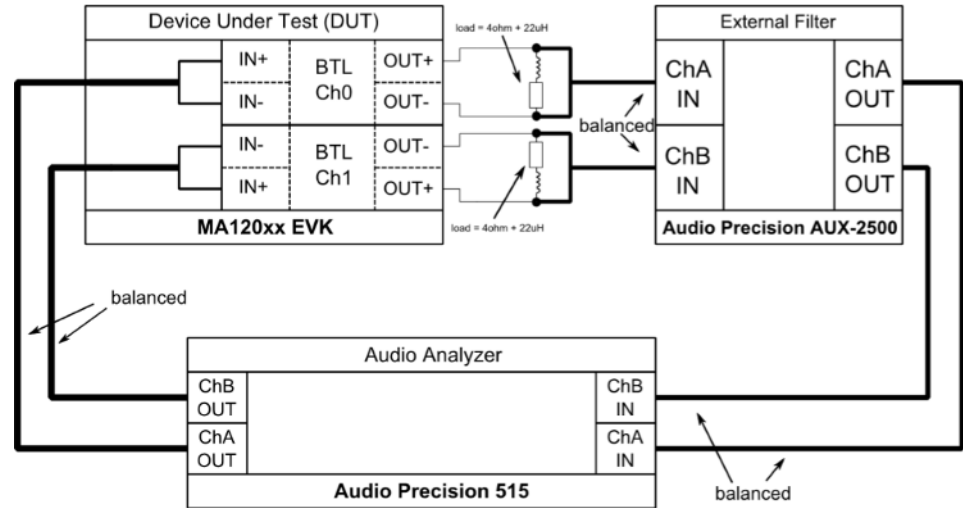


Figure 12. Measurement setup for MA120xx amplifiers.

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- Product briefs
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- Whitepapers
- Datasheets, MCDS files
- PCB design data

[Evaluation boards](#)

- Evaluation boards
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- Reference designs

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- Tradeshow videos

The screenshot shows the Infineon website's 'Class D Audio Amplifier Solutions' page. The navigation bar includes 'Products', 'Applications', 'Tools', 'About Infineon', 'Discoveries', and 'Careers'. The main content area features a sidebar with 'Overview', 'Products', 'Highlights', 'Documents', 'Boards', 'Videos', 'Partners', and 'Support'. The main text describes MERUS™ integrated audio amplifier ICs, multi-chip modules, and discrete MOSFET/HEMT driver ICs, highlighting their benefits for portable, battery-powered audio products. A chart titled 'Click on a button to find out more' plots various ICs against 'Output power [W/channel]' (20 to 2000) and 'Cooling solution'. The chart shows a progression from low-power ICs (e.g., MA12040, MA12073) to high-power solutions (e.g., IR4302, IR4303, IR4304) with different cooling requirements (no heatsink, heatsink, water-cooled).

Class D Audio Amplifier Solutions

MERUS™ integrated audio amplifier ICs, multi-chip modules and discrete MOSFET/HEMT driver ICs
Cooler, smaller and lighter amplifiers for great sounding audio products

Infineon's MERUS™ class D audio amplifier solutions address a wide range of applications in the field of portable/battery powered, home and professional audio applications. The broad portfolio covers power ranges from 20W to 200W per channel from the smallest single-chip devices and multi-chip module (MCMs) to highly scalable discrete audio amplifier solutions consisting of powerful MOSFET/**CoolGaN™ enhancement mode (e-mode) HEMT** and driver ICs combinations.

Thanks to the enhanced design and production standards, customers can rely on the robustness of the MERUS™ class D audio amplifiers to ensure complete system stability and reliability over their entire product lifetime. In addition to outstanding quality and reliability, Infineon's audio amplifier solutions are designed to maximize power efficiency and dynamic range while providing best-in-class audio performance in product form factors that make them an optimal fit for any high-end audio application.

➔Download MERUS™ class D audio amplifier solutions application brochure

Click on a button to find out more

IC	Power Range [W/channel]	Cooling Solution
MA12040 (2-4 ch)	~20	No heatsink
MA12073 (1-4 ch)	~20	No heatsink
MA12040P (1-4 ch)	~20	No heatsink
MA12073P (1-4 ch)	~20	No heatsink
IR4301 (1 ch)	~20	No heatsink
IR4302 (2 ch)	~20	No heatsink
IR4303 (2 ch)	~20	No heatsink
IR4304 (2 ch)	~20	No heatsink
IR4305 (1 ch)	~20	No heatsink
IR4306 (1 ch)	~20	No heatsink
IR4307 (1 ch)	~20	No heatsink
IR4308 (1 ch)	~20	No heatsink
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IR4614 (1 ch)	~20	No heatsink
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IR4616 (1 ch)	~20	No heatsink
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IR4618 (1 ch)	~20	No heatsink
IR4619 (1 ch)	~20	No heatsink
IR4620 (1 ch)	~20	No heatsink
IR4621 (1 ch)	~20	No heatsink
IR4622 (1 ch)	~20	No heatsink
IR4623 (1 ch)	~20	No heatsink
IR4624 (1 ch)	~20	No heatsink
IR4625 (1 ch)	~20	No heatsink
IR4626 (1 ch)	~20	No heatsink
IR4627 (1 ch)	~20	No heatsink
IR4628 (1 ch)	~20	No heatsink
IR4629 (1 ch)	~20	No heatsink
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IR4632 (1 ch)	~20	No heatsink
IR4633 (1 ch)	~20	No heatsink
IR4634 (1 ch)	~20	No heatsink
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IR4637 (1 ch)	~20	No heatsink
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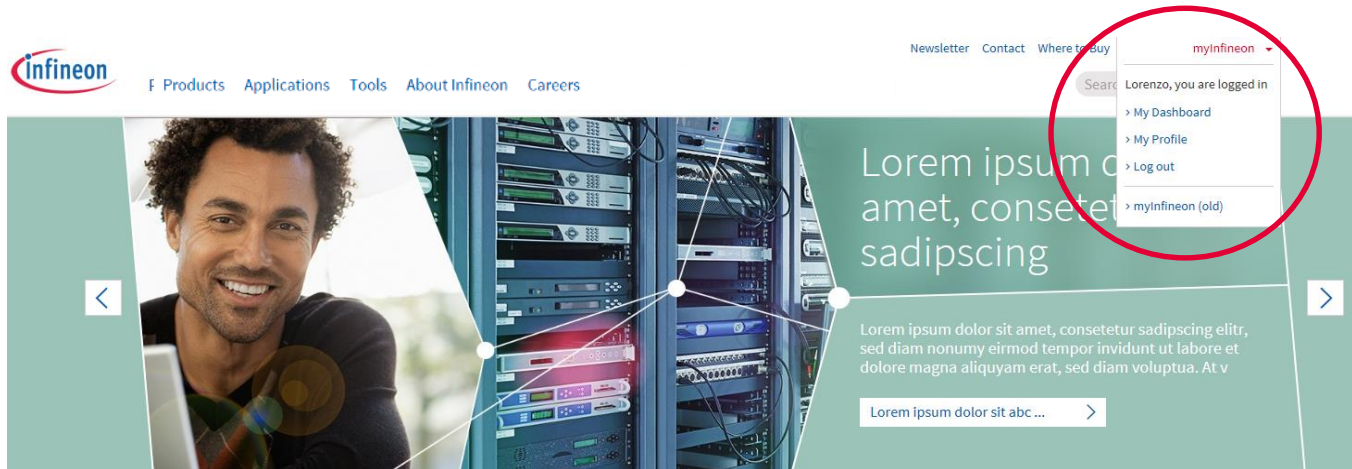
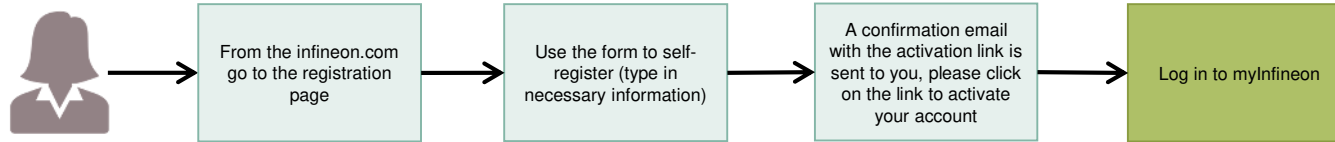
Support

Online tools and services

The screenshot shows the Infineon website homepage. At the top, the navigation bar includes 'Products', 'Applications', 'Tools', 'About Infineon', 'Discoveries', and 'Careers'. A search bar is on the right. The main banner features a modern building and the text 'Smartify homes the secured way...' with a 'Learn more' button. Below the banner is a menu with three columns: 'Products', 'Power', and 'Power Overview'. The 'Support' link in the 'Products' column is highlighted with callout 1. The 'Tools' link in the 'Products' column is highlighted with callout 2. The 'Newsletter' link in the top navigation bar is highlighted with callout 3. The 'Where to buy' link in the top navigation bar is highlighted with callout 4. The 'myInfineon' link in the top navigation bar is highlighted with callout 5.

- 1 Get support
- 2 Tools, finders and selectors
- 3 Subscribe to newsletter
- 4 Where to buy
- 5 myInfineon

Tailor made information via myInfineon



In case of problems with the access, the registration or all other type of issues, please get in touch with your Infineon contact person or with our official support at www.infineon.com/support (available 24/7)



Part of your life. Part of tomorrow.