

Features

- . DSP Powered plate amplifier
- . IcePower ASX2 technology
- . Analog & Digital input
- . Multi-unit control via Ethernet

Hardware

- . ADAU1445 SigmaDSP 172MHz
- . 28/56bit Processing path
- . Balanced (XLR) and unbalanced (RCA) analog audio input
- . Balanced (XLR) digital input
- . Balanced (XLR) digital link out
- . I2S In & Out connectivity

Software Control

- . Ethernet Control
- . Self Discovery, Zero Conf setup
- . Firmware upgradeable for future expansion

Audio Processing Algorithm

- . Crossover, Parametric EQ, delay, compressor/Limiter, Gain, real time live monitoring and control

Power

- . AC 110/240V selectable

Applications

- . Powered 2way loudspeaker
- . Powered subwoofer

Introducing the PWR-ICE250, a DSP powered plate amplifier module for active 2 way loudspeakers or mono subwoofers. Result of the collaborative effort of two innovative technology companies, the PWR-ICE 2 core features include:

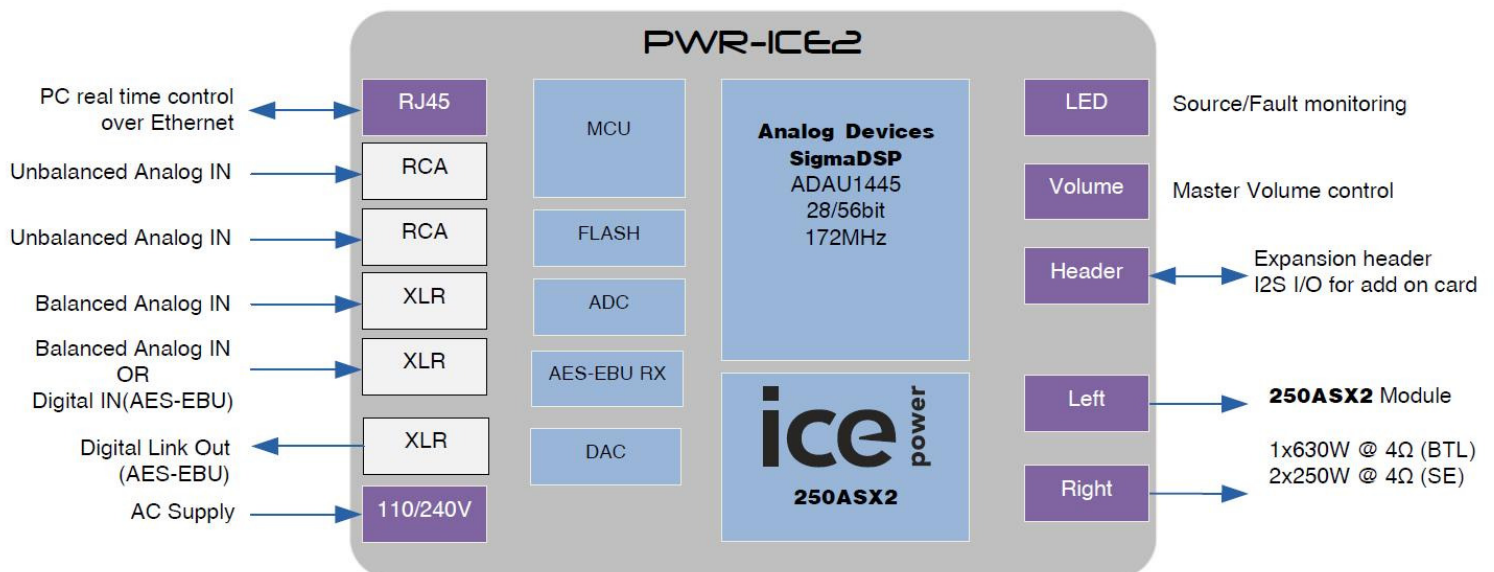
- On the power amplifier side, the IcePower ASX2 modules are complete AC plug-to-speaker amplification audio solutions offering flexible two-channel or bridgeable speaker drive. Their compact size, audiophile audio quality and high power output make them perfect for high-performing audio products.
- On the processing side is miniDSP's innovative software & firmware allowing a Plug & Play real time control of the onboard DSP over Ethernet/Wifi networks. Using our Zero Conf technology, multiple modules are automatically discovered and controlled from a single User interface in real time.

As for audio connectivity, the PWR-ICE2 is fitted with both analog balanced (XLR) & unbalanced inputs (RCA) to provide maximum compatibility. A digital input (AES-EBU) saves on the A-D conversion for maximum performance while a Digital output (AES-EBU) allows multiple plate amplifiers to be linked to each other.

Looking for a solution for your active speakers? Get in touch with our team to learn more about our OEM solutions.

miniDSP, innovating Digital Audio Solutions

SYSTEM DIAGRAM



Item	Description
Digital Signal Processor	28/56bit Fixed point processor, 172MHZ ADAU1445
Converter resolution / Sample rate	24bit / 96kHz (higher sample rate available with custom configuration)
Control	RJ45 Ethernet connection for real time control of DSP over Ethernet/Wifi networks Rotary potentiometer for Master volume control
Analog Audio input	2 x Balanced analog input (Up to 2Vrms) 2 x Unbalanced analog inputs (Up to 2Vrms)
Digital Audio input	AES-EBU/SPDIF input on Neutrik 3pin female XLR with isolation transformer Processed by Asynchronous Sample Rate Converter (ASRC)
Digital Audio outputs	Digital Link Output on AES-EBU XLR connector / Buffered signal of the AES-EBU input
Audio Amplifier module	ICEPower 250ASX2 amplifier module series. See datasheet of module for more information. Operation in Single Ended (SE) or Bridge (BTL) 250ASX2: 1x 630W @ 1% THD+N @ 4Ω BTL / 2 x 250W @ 1% THD+N, @ 4Ω SE
Digital Audio Signal Processing	Speaker crossover, Parametric EQ, Comp/Lim, Delay, Gain, Phase, monitoring
Amplifier monitoring / LED indication	Analog/Digital source & Thermal/Over current indication
Power supply	110/240V selector & ON/OFF switch
Dimensions of DSP module (H x W x D) mm	267 x 153 x 75 mm

MECHANICAL DRAWINGS

