

**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-ICE125, 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:

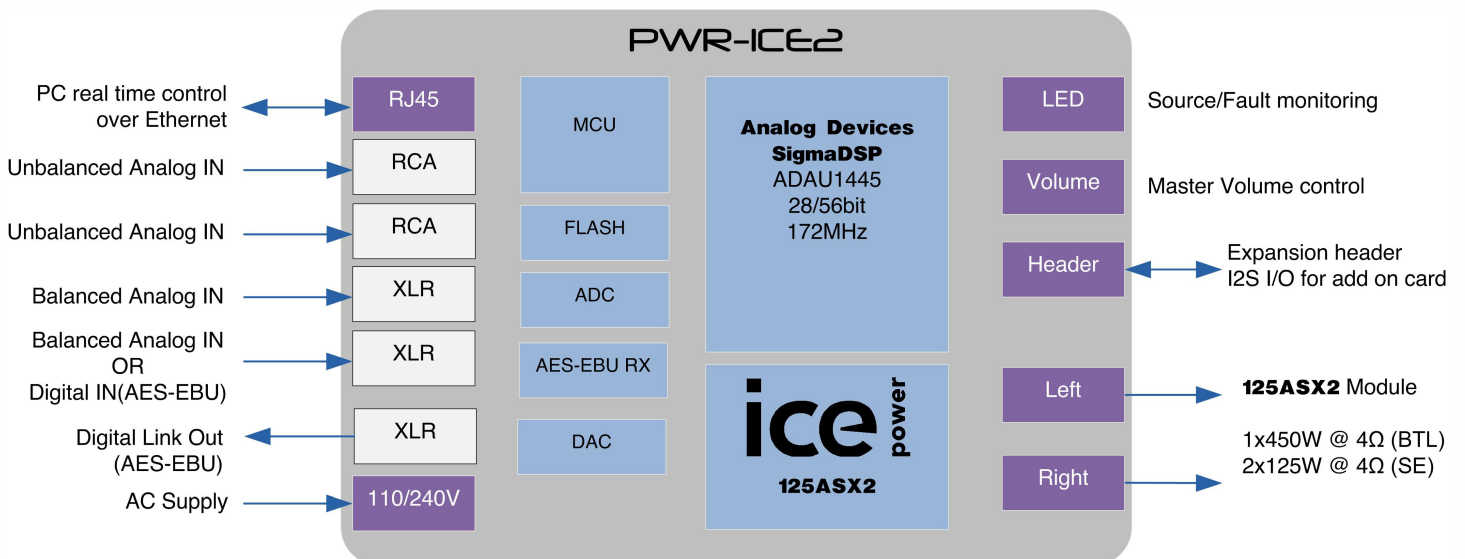
- On the power amplifier side, the IcePower ASX2 modules are complete AC plug-to-speaker amplification audio solutions offering flexible two-channel or bridgeable speaker drive. Their compact size, audiophile audio quality and high power output make them perfect for high-performing audio products. The amplifier is rated for up to 2x125W @ 4Ω or 1 x 450W @ 4Ω.
- 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*

**PWR-ICE2**



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 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 125 ASX2 amplifier module series. See datasheet of module for more information. Operation in Single Ended (SE) or Bridge (BTL) <b>125ASX2:</b> 1x 450W @ 1% THD+N @ 4Ω BTL / 2 x 125W @ 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 - ON/OFF switch
Dimensions of DSP module (H x W x D) mm	216 x 153 x 75 mm

SYSTEM DIAGRAM

