

**Features**

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

**Hardware**

- ADAU1445 SigmaDSP 172MHz
- 28/56bit Processing path
- 1x630W @4Ω or 2x250W@4
- Balanced (XLR) and unbalanced (RCA) analog audio input
- Balanced (XLR) digital input
- Balanced (XLR) digital link out
- I2S In & Out connectivity

**Software Control**

- Self Discovery, Zero Conf setup over Ethernet for Win, Mac, iOS and Android

**Audio Processing Algorithm**

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

**Power**

- AC 110/240V selectable

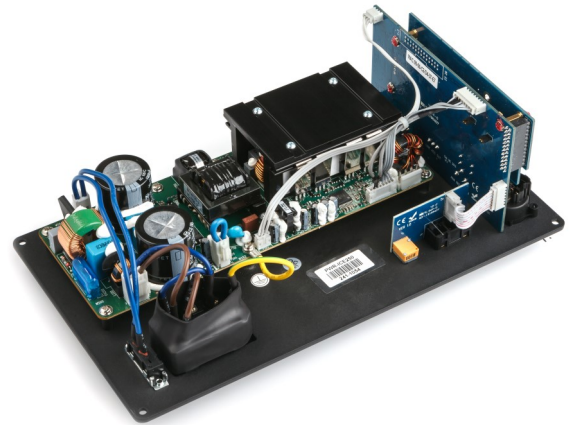
**Applications**

- Powered 2way loudspeaker
- Powered subwoofer

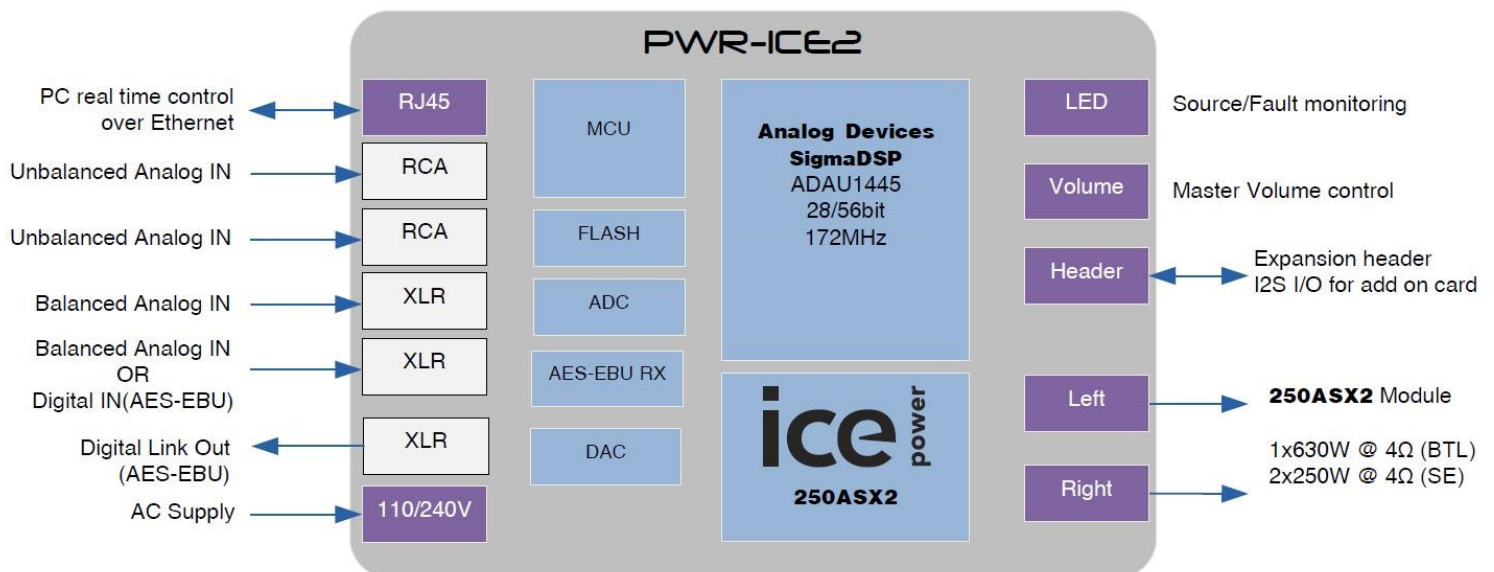
Introducing the PWR-ICE250, a DSP powered plate amplifier module for active 2 way loudspeakers or mono subwoofers. Result of the collaborative effort of two innovative technology companies, the PWR-ICE250 features include:

- On the 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. A wide range of DSP blocks allows for complex processing.

As for audio connectivity, the PWR-ICE250 is fitted with both analog balanced (XLR) & unbalanced inputs (RCA) to provide maximum compatibility. A digital input (AES-EBU/SPDIF) combined with a Sample Rate Converter (44.1~216kHz) saves on the A-D conversion for maximum performance while a Digital AES-EBU output allows linking to other devices.



**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) <b>250ASX2:</b> 1x 630W @ 1% THD+N @ 4Ω BTL / 2 x 250W @ 1% THD+N, @ 4Ω SE
Digital Audio Signal Processing	Speaker crossover, Parametric EQ, FIR, 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

