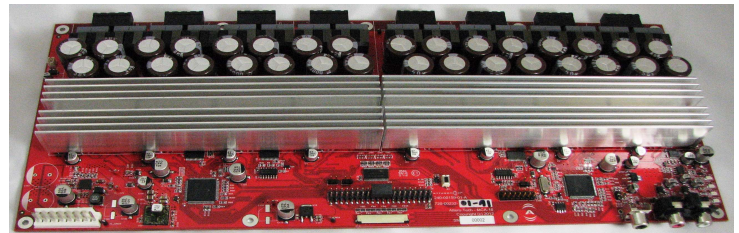


MCA-16 Digital Amp Platform

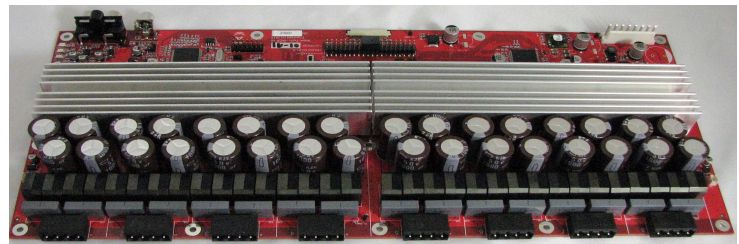
16-Channel Licensable OEM Amplifier Subsystem

PRELIMINARY PRODUCT BRIEF

The Attero Design 16 Channel OEM Digital Amplifier platform is a complete digital amplifier subsystem supporting I2S and S/PDIF linear PCM input. Substantial DSP audio signal processing is available on all channels, and any input may be routed to one or more speaker level outputs. The OEM Amplifier platform scales up to 60W/channel output power at 8 ohms, and is stable driving impedances down to 3 ohms. Closed loop power output stages are used to ensure excellent measured audio performance and low residual noise with both switching and linear power supplies.



Front View of MCA-16 Platform



Rear View of MCA-16 Platform

FEATURES AND BENEFITS

- 16 Channels of amplification, scaling up to 60W/channel @ 8 ohms
- Uses Intersil/D2 Audio DAE3 DSP PWM controller for premium performance
- Texas Instruments closed loop power output stage to ensure low THD and noise with switched mode or linear power supply
- Full 16 x 16 audio routing, and any input channel may be routed to any output channel (or group of channels)
- Substantial DSP signal processing capability, including tone controls, parametric EQ, dynamic limiters, volume adaptive loudness, as well as proprietary processing from SRS and Dolby

APPLICATIONS

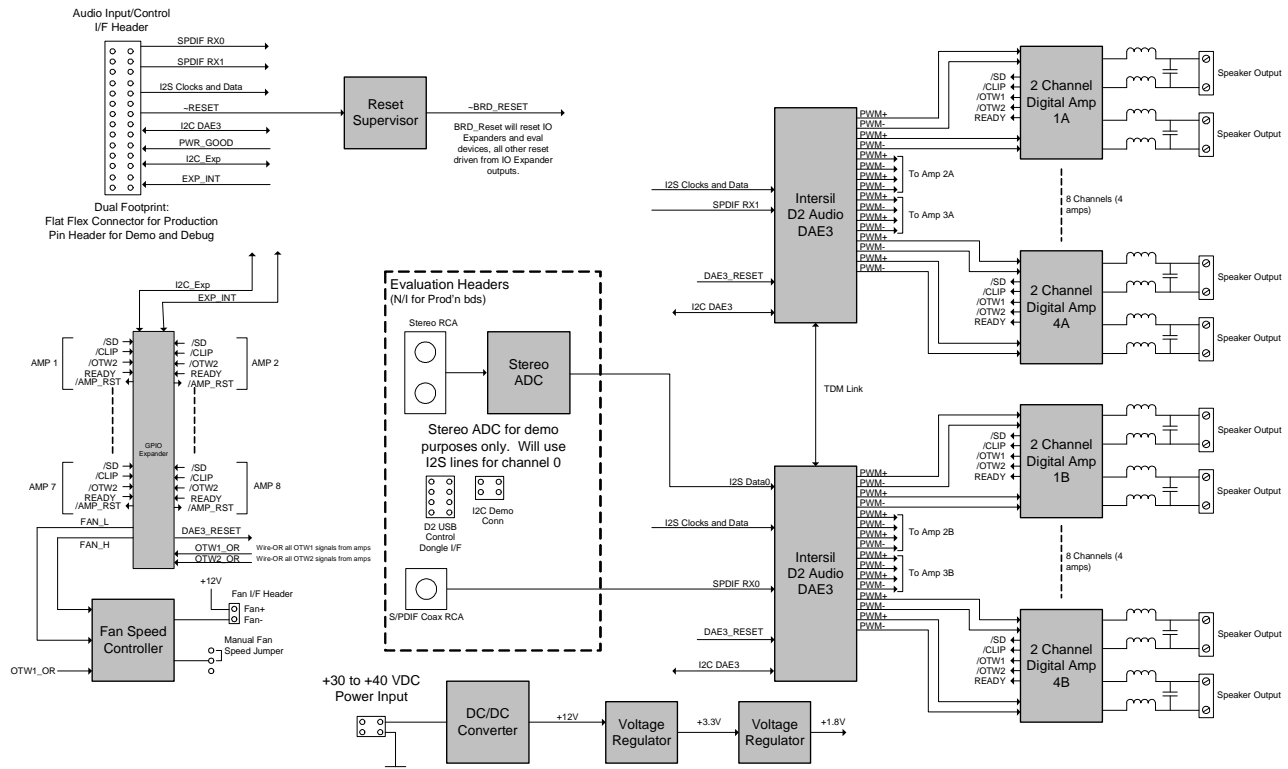
- Stand-alone multi-channel power amplifiers
- Amplifier section of multi-source/multi-zone whole home AV systems
- Multi-channel amplifiers for digitally steerable line array loudspeakers

ABOUT ATTERO DESIGN

Attero Design is the design services arm of Attero Tech. Attero Design provides licensable OEM platforms and custom design services in the residential and commercial AV markets. Attero Design is headquartered in Fort Wayne, Indiana. Contact us at:

260.496.9668 x317

www.atterodesign.com



SPECIFICATIONS

Number of Output Channels:	16 (8 ohm nominal load)
Digital Inputs:	8 Stereo I2S 2 Stereo S/PDIF
Control Input:	I2C for local host MCU control
Output Power:	40W @ 8 ohms 60W @ 4 ohms <70dB @ 1kHz, adjacent channels
Crosstalk:	<.1%
IMD:	<.1% @ 1kHz, full power
THD:	>100dB
S/N Ratio:	Intersil DAE3 (x2) DSP + PWM
PWM Controller:	TI TAS5612A (x8)
Amplifier Power Stage:	400W, all channels @ 20W/8 ohms
Power Consumption:	15"W x 4.94"D x 2"D
Dimensions:	0 °C - 40 °C
Operating Temperature:	

All specifications subject to change without notice.

ABOUT LICENSABLE OEM PLATFORMS

Attero Design's Licensable OEM Platforms are designed minimize risk and time to market for common subsystems found in residential and commercial AV equipment. Attero Design's flexible business model gives OEMs a variety of ways to access and use these licensable platforms:

- OEMs may license the platform exactly as-is, and may arrange for manufacturing or engage Attero Design for manufacturing.
- OEMs may license the platform, and engage Attero Design for any custom modifications that might be required for the OEM application. Custom modifications carry additional costs based on the extent of the modifications. OEMs may then arrange for the manufacture of the modified units or engage Attero Design for manufacturing.

Licensing details are available under NDA from

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