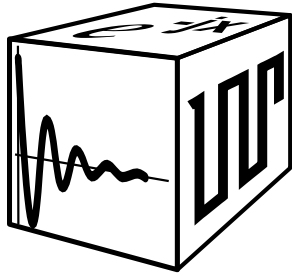# SIGNALBLOX®

Reduce development time by quickly prototyping complex systems. Feature set supports OEM applications that need robust, reliable operation. Off the shelf hardware for limited NRE cost; open source hardware makes it easy to extend and enhance.

PWR002 seven output module

PWR001 triple output module

SignalBlox, DigitalBlox, AnalogBlox and the cube logo are trademarks of Clockworks Signal Processing LLC.

CLOCKWORKS
Signal Processing

OPEN SOURCE MODULAR HARDWARE FOR MULTI-CHANNEL SIGNAL PROCESSING

Power Supplies

Common features

- Intended for use in audio and signal processing applications
- Secondary filtering reduces RMS noise in audio band to < 100 uV RMS
- Switching regulator based for good efficiency
- Enable signals to support device power sequencing
- Designed to support click & pop free audio use
  - o Primary power fail detection to allow orderly muting of outputs
  - o > 10 msec output holdup on primary power fail
- Can meet CE < 0.5W requirements for standby power draw
  - o When used with appropriate mains to 12V supply
- MTA-100 output connectors for easy interconnect to target
- 2.1mm center positive input barrel connector or screw terminal
  - o 12 VDC input supply voltage (min 10.5V, max 14V)
- Available in two options
  - o Power supply board only
  - o Kit with supply plus AC 12V supply, spare fuse, and cables (cables also available separately)

Supplies

PWR001 triple output

- +3.3 at 1 amp and +/- 15V at 330 mA
  - o Option for +5V and/or +/- 5V outputs instead
- Small 75 x 85 mm size matches standard SignalBlox module dimensions

PWR002 seven output

- Digital supplies +3.3 at 1 amp standby, +3.3 at 3 amps, +5 at 3 amps
- Analog (low noise) +/-5V at 1 amp, and +/- 15V at 330 mA
- Separate enables for digital 3.3/5 and analog supplies
  - o Allows host controller running off of 3.3 standby to optimize power profile
- 85 x 160 mm size
- 3 sets of output connectors to power multiple systems

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