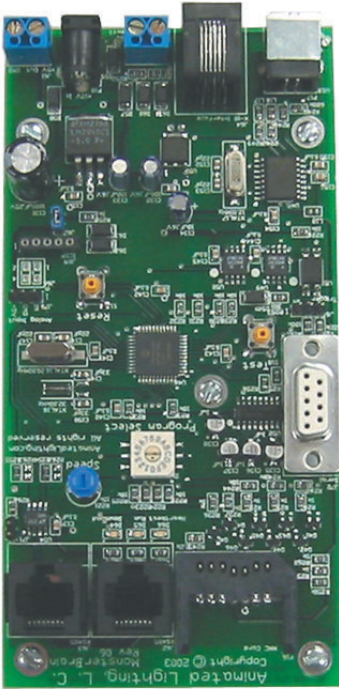


# Monster Brain™ Animation Processor (MB)



## Direct Light, Sound, and Motion. Coordinate Thousands of Devices. Trigger Events Based on Numerous Criteria.

The Monster Brain Animation Control Processor is a microprocessor controlled show controller that is part of Animated Lighting's line of Smart Animation Controllers. Monster Brain directs light, sound and motion controllers through a simple network connection. Monster Brain can coordinate thousands of devices, making complex decisions based on date/time, external inputs, or user defined criteria.

Monster Brain is programmed using the Animation Director™ software application. This Windows application brings a friendly interface allowing you to easily create interesting shows. Once the show is complete it is downloaded into Monster Brain where will run on it's own without a PC connection.

Monster Brain can support a large number of controllers to animate nearly any device conceivable. These controllers are connected to the Monster Brain using readily available Category 5 wire. The boards simply plug together in daisy chain fashion.

## Specifications

- **PC Connection:** Serial or USB
- **Supply Voltage:** 12V DC from adapter
- **Show Memory:** 64K non-volatile flash
- **Additional Memory:** Standard MMC cards
- **Digital Inputs:** One Opto-Isolated Input
- **Analog Input:** One 0-5V Analog Input
- **X10 Control:** X10 Control with optional X10 module
- **Outputs:** Two RS485 connectors
- **Clock/Calendar:** Built-In Clock/Calendar
- **Built-in programs:** 16 Switch Selectable Programs
- **Speed:** Manual Speed Control for Show Speed

**Lighting** – Monster Brain controls Animated Lighting's LC line of light controllers. These controllers come in several different configurations for total flexibility. They can control multiple voltages from 12V to 240V. The on-board microprocessor controls dimming as well as a number of built-in effects including fading, ramping, Pop-Fades, Reverse-Pop-Fades, Blinking, Sparkling, Shimmering, and Flickering.

**X10 Lighting** - Monster Brain supports X10 lighting (and other devices) directly (with the optional X10 interface module). Existing X10 lighting can be added to a show.

**DMX Lighting** – Monster Brain can support DMX lighting fixtures with the optional DMX gateway board.

**Digital/Relay Outputs** – Using Animated Lighting's DRC controller board, Monster Brain can support up to 8 digital outputs. This includes 10 amp relays for power applications.

**Servo Outputs** - Using Animated Lighting's DRC controller board, Monster Brain can support up to 8 servo outputs for motion control.

**Digital Inputs** – Monster Brain has one built-in opto-isolated input. This can be used to trigger different actions. For example, this input could be connected to a motion detector, switch mat, or infrared beam to detect the presence of people. In addition, using Animated Lighting's DRC controller board, Monster Brain can support up to 8 additional inputs.

**Analog Inputs** – Monster Brain has one built-in analog input. This input can measure any voltage between 0 and 5 volts. This input could be used to read a photocell to determine when it gets dark, or a variety of sensors that output a voltage. Using Animated Lighting's DRC controller board, Monster Brain can support up to 3 additional analog inputs. Each input can read between 0 and 5 volts.

**Sound Outputs** – Using Animated Lighting's Sound controller board, Monster Brain can support up to 4 minutes of digital sound (per board). The sound can be continuous or divided into multiple sound clips for animatronic, kiosk or Halloween type displays.

**Real-Time Clock/Calendar** – Monster Brain contains an internal clock/calendar which can be used to time show events to occur at certain times or dates. This clock has a battery backup to keep time even if power outages occur.

**Memory** – Monster Brain comes standard with 64K of non-volatile flash memory. This is sufficient for very complex shows. Shows that require more memory can utilize the MMC memory card slot. These cards come in different sizes ranging from 4 megabytes to over 512 megabytes. Up to 16 shows can be stored at one time and are switch selectable using the on-board select switch. Additional shows can be stored on additional MMC cards and inserted as needed.