

Light--Rama

Component Multiple Interface
32 Channel Digital Input/Output

DIO32 DMX

www.lightorama.com

- 32 channel controller divided into four individually configurable 8 bit ports
- Four 16-pin headers, one per 8-bit port, with DIP switches to select function (triac dimming control, digital output, digital input, servo control)
- Can be driven by a LOR Show Director, the LOR ShowTime Windows PC Software, DMX or an internally stored set of commands
- All 32 ports can be used for servo control. Two 8-bit ports have 24-pin headers to permit direct connection of up to 16 servos
- On board zero-cross detector for triac dimming — triac daughter boards also have zero-cross detectors
- Selectable pulse width ranges for each servo port
- Three phase power friendly
- Four daughter boards:
 1. 8 channel relay
 2. 8 channel line voltage, high current, filtered AC triac dimmer
 3. 16 channel low or line voltage AC triac dimmer
 4. 16 channel convenience screw terminal connection
- Triac dimmer effects include on, off, fade, intensity, twinkle and shimmer
- Can direct itself and a network of controllers
- Can monitor an input to start a sequence
- Up to 240 controllers in a network
- 100 intensity levels for dimming
- 256 levels for smooth fading with durations from 0.1 to 25 seconds
- Can be powered by 120vac, 240vac, 12vac, 24vac, 12vdc, 15-36vdc
- On-board DC power supply provides 1 amp @ 5v and 1 amp @ 12v simultaneously



DIO32 32 Channel Digital Input/Output Controller

Light O Rama is both proud and pleased to go back to our roots with the production of this flexible Do-It-Yourself family of interface products. Programmed by the same easy-to-use, powerful Showtime Software as our more mainstream products, this product line gives you the ability to interface just about anything.

Completely control the scene on your model railroad setup, set up different scenes with you low voltage landscape lighting, turn on/off random devices and manipulate servos to control robotic elements.

Combining this product with our other products like wireless connection and infra-red remote control gives virtually limitless possibilities.

This product line gives you low voltage digital outputs to turn on and off your devices. It gives you zero-cross timed digital outputs to direct your own random-cross SSRs or triacs. It gives you servo outputs to control your robotics. It gives you digital inputs to allow for interactive control.

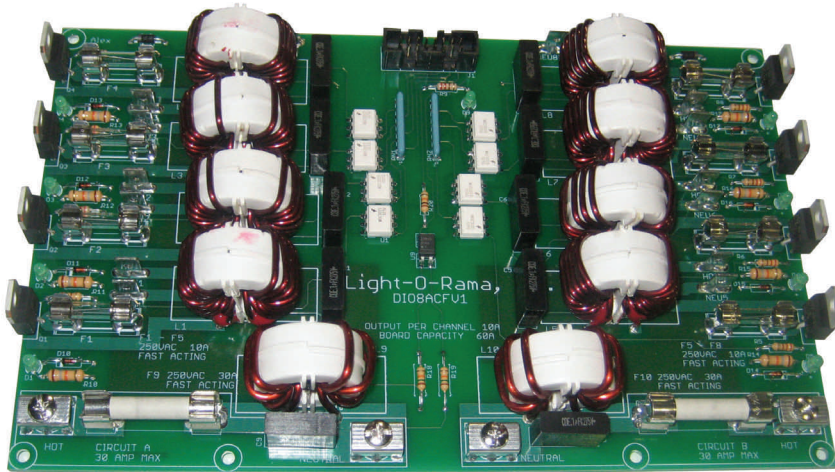
Daughter cards provide relays, line voltage, high current, filtered dimming and low or line voltage dimming. For example, using 4 DIO8ACF cards you can build a 240 amp lighting controller.

Take your environment, whatever it is, to the next level.

Imagine it, then do it

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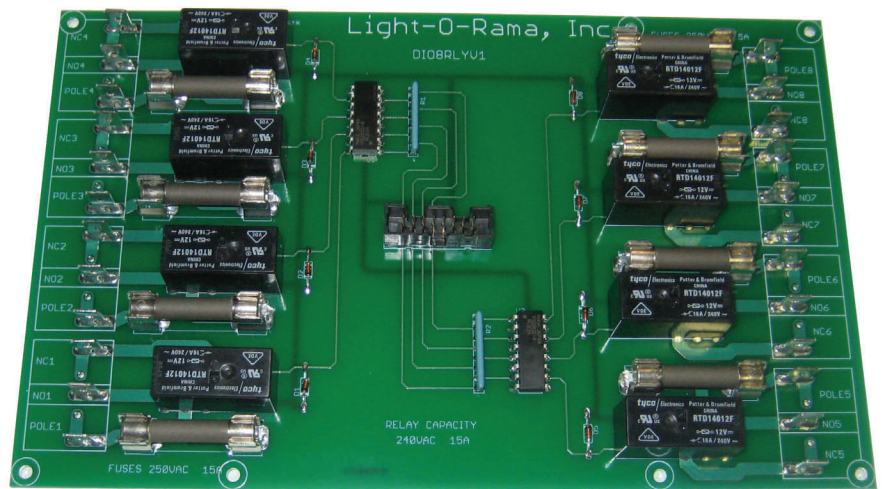
DIO8ACF — 8½" w x 5¼" h x xx" d



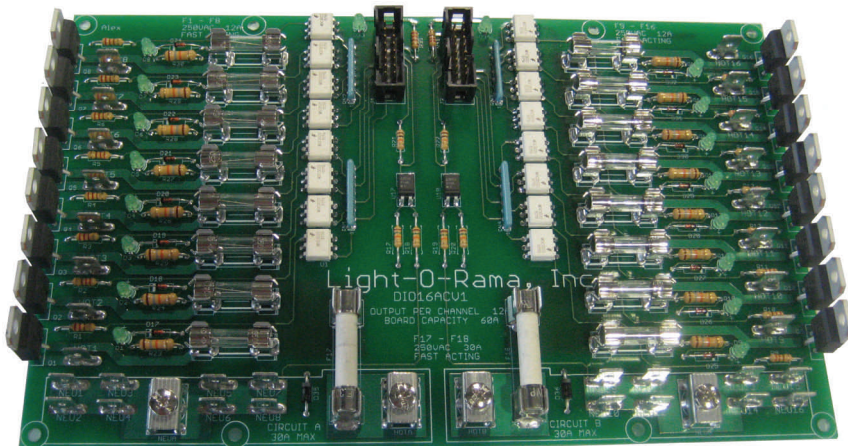
- Eight triac dimming channels
- Two banks of four channels
- 10 amp maximum per channel
- 30 amps @ 120/240 VAC per bank
- Both input power and output channels fully filtered with common mode chokes and capacitors
- Each bank and each channel separately fused
- Power limited to 20 amps per bank with supplied standard heat sinks
- Both power feeds must be on the same phase in three phase systems

DIO8RLY — 8½" w x 5¼" h x 1½" d

- Eight Single Pole Double Throw relays (SPDT)
- Relay inputs and outputs are completely independent of one another, there is no common wiring
- Each relay is rated to handle 16 amps at 250 VAC
- ¼" male quick connects (like both triac dimming daughter boards)
- Each relay is separately fused



DIO16AC — 8½" w x 5¼" h x 1½" d



- 16 triac dimming channels
- Two banks of eight channels
- Support for low and line voltage
- 8 amp maximum per channel
- 30 amps @ 12/24/120/240 VAC per bank
- Each bank and each channel separately fused
- Power limited to 20 amps per bank with supplied standard heat sinks
- Each bank can be on a different phase in three phase systems

DIO16CON — xx" w x xx" h x xx" d

- 16 sets of screw terminals to facilitate connection of custom devices to the DIO32 main board
- Provided to eliminate the need to make a custom 16-pin ribbon cable to your device cable

