

**Dash4™**

**Features**

- Silent operation
- Affordable miniature motion
- Integrated digital controller
- Integrated power drivers
- Low outgassing
- Non-magnetic
- Built-in limit-stop detection
- Suitable for portable devices using high-energy batteries

**Benefits**

- Eliminates mechanical and electrical noise
- Affordable for high volume consumer devices
- Compatible with complex as well as simple mechanical systems
- Reduces overall system cost and time to market
- Allows seamless integration with digital systems
- Ideal for use with portable consumer devices

The Dash4™ is available now either from the factory, or from our online retailers.

**Contact**

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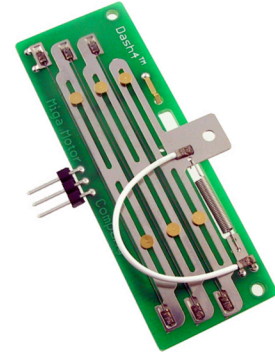
MMC-022609 r1.0

**Linear Shape Memory Alloy Actuator**

Miga Motor Company SMA Actuators are the World's thinnest motors: providing high force, long stroke alternatives to old-fashioned motors and solenoids for numerous applications.

Simply connect the new Dash4 & MADv5 Analog Switching Circuit to your device and to a standard power supply (such as high energy batteries), and you are ready to turn on Modern Motion from Miga Motor Company.

The Dash4 is ideally suited for use as a latch release mechanism, but can also be used for many other motion applications.



**Dash4™ Specifications at a Glance**

<b>Stroke:</b>	0.23 inches (5.8mm)
<b>Output Force:</b>	Constant 1.75 lb-f (906 N)
<b>Actuation Time:</b>	50 ms to Position-Hold (Controlled by input voltage or PWM)
<b>Weight:</b>	0.35 ounces (10 grams)
<b>Thickness:</b>	0.11" (2.8mm)
<b>Resistance:</b>	3.2 ohms *
<b>7V actuation:</b>	~2.1 amps, 0.25s *
<b>Mounting:</b>	Holes for 2x 2-56 screws
<b>Electrical:</b>	3-Pin header on 0.1" pitch
<b>Operating Temperature:</b>	-20 °F to 140 °F (-29 °C to 60 °C)

*\*Note: All values are approximate*

The MigaOne-series of actuators including the Dash4™ can easily be customized to meet your stroke, force, or power requirement.

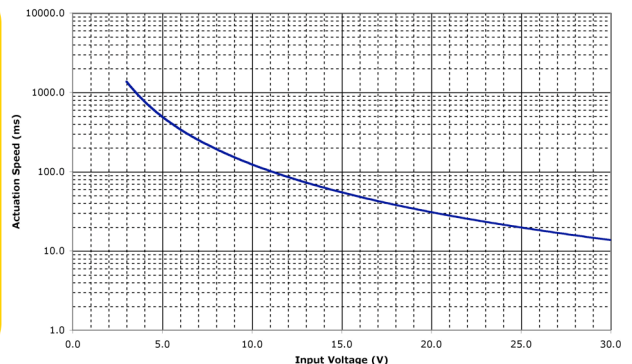
Call us today about a custom On-Board SMA Actuator to suit your specific needs.

Actuation speed can be varied either by changing the actuator input voltage, or by using PWM Logic-Gate input signals.

Position control can be done either through an external timing circuit, or use of an external position sensor.

A high level of speed/position control can be achieved!

**Dash4 Actuation Speed**  
(0.23" Stroke)

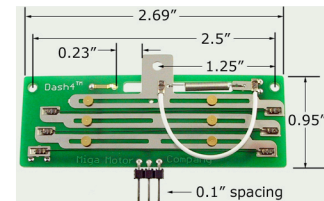


**Miga Analog Driver v5**



Note: The MADv5 can be built directly onto the MigaOne PCB or any custom actuator application

**Motor Dimensions**



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