



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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**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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sales@MigaMotors.com

[www.MigaMotors.com](http://www.MigaMotors.com)

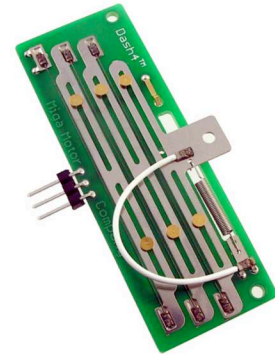
MMC-022609 r1.0

**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.

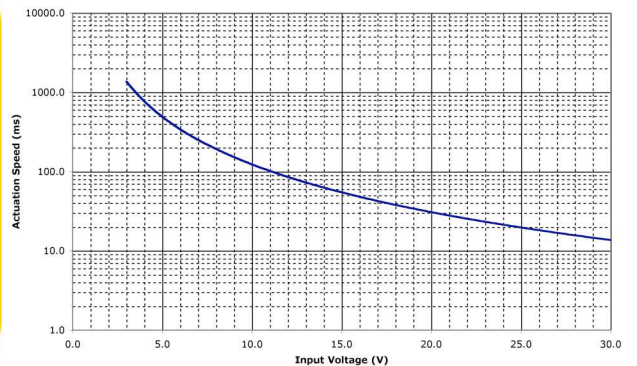
Call us today about a custom On-Board SMA Actuator to suit your specific needs.

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**

