NOVASENTIS

Breathe Life into Your Design

Ultrathin and Flexible Electro-Mechanical Polymer (EMP) Actuators that Bend and Move under Digital Control

The Novasentis EMP Developer Kit 2 provides designers, researchers, and product engineers with an easy to use system that demonstrates the bending capabilities of revolutionary EMP actuators from Novasentis.

Novasentis deformable actuators are a new class of EMP actuators that bend under digital control, allowing the user to see, touch, and feel the deformation and strength of an ultrathin and flexible EMP actuator. The 12x14 mm Novasentis EMP actuators are less than 120 microns thin, can generate 10-30g of blocking force, and rise up to 1.3 mm from a flat surface. Highly customizable, EMP deformable actuators can be applied to many products, from keyboards to medical devices to micro robotics.

Once integrated into the device, EMP deformable actuators will allow mechanical parts to appear from flat surfaces, enable slimmer designs, and allow digitally-controlled micro-movement of various device elements. Commercially available, EMP deformable actuators are cost-competitive with other technologies.

Novasentis EMP deformable actuators can improve device design and enrich user experience with:

- Embossed haptics
- Bending, flexing, curving - micro-movement of various elements
- Digital control
- Slim and elegant design
- More intuitive, realistic sensations
- Innovative functions

Don't wait for your competitors to launch new products with Novasentis Technology. Lead the revolution—BEFORE it happens.

NOVASENTIS EMP DEVELOPER KIT 2

Novel Novasentis Electro-Mechanical Polymer (EMP) Actuators

Novasentis Deformable Actuators:

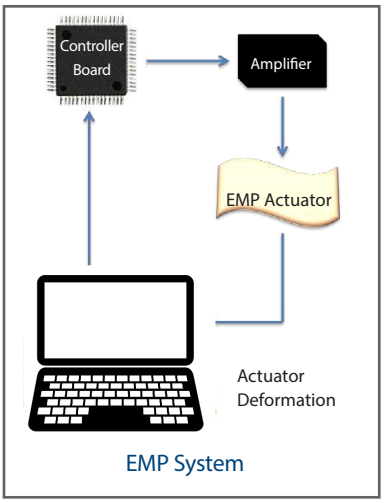
12 x 14 MM
Ultrathin, < 120 microns
Customizable
Feather-light, <0.001g
High Reliability

novasentis.com

Your partner for innovative solutions using Electro-Mechanical Polymer Technologies

Attachment A

NOVASENTIS



Designed for your Imagination

The Novasentis EMP Developer Kit 2 is your tool to understanding the deformation capabilities of Novasentis EMP technology. The kit shows how Novasentis EMP actuators add new dimensions to your products.

When connected into the EMP System shown on the left, the EMP deformation actuators bend and change shape, which can be observed with the naked eye or touched with a finger. The kit includes custom-designed amplifiers to power the actuators.

Each kit includes 5 hours of telephone, email, or video Skype consulting services with SPS experts during the 90-day period beginning on delivery to help design and integrate the technology into your devices.

The detailed user guide provides specific instructions for using Novasentis EMP actuators, and is available exclusively to selected customers under a non-disclosure agreement. For more information and pricing, please contact us at info@novasentis.com.

Contents:

- Two (2) deformable actuators
- One (1) programmable controller board with high voltage amplifier shield
- Detailed operating instructions
- 5 hours consulting time

****Additional controller boards available for purchase.****

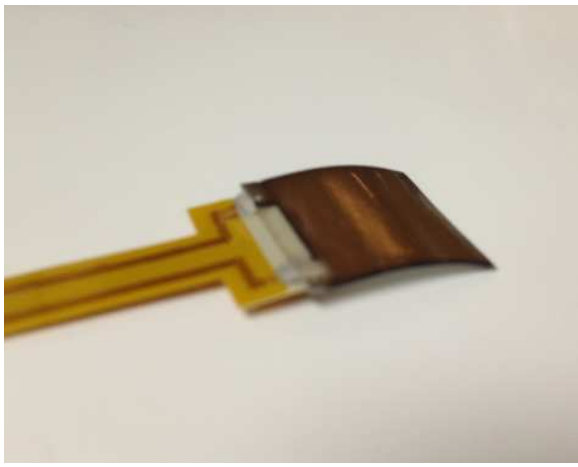
Please note that these actuators are for evaluation purposes only and are not for integration into your application. Customized actuators are required for development. For more information, email info@novasentis.com

EMP Deformable Actuator Specifications:

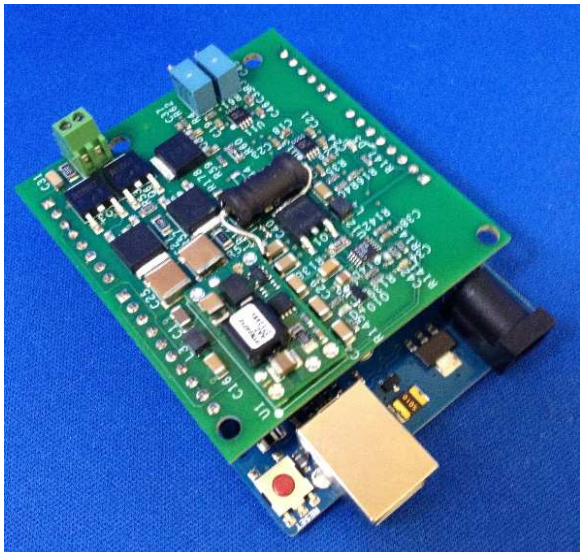
- Active area dimensions: 12x14 mm
- Thickness, <120 microns
- Electrical connection with actuator to drive electronics
- Flexible print circuit (FPC) to make electrical connection to actuator

NOVASENTIS DEVELOPER KIT 2 CONTENTS

Two (2) EMP Deformable Actuators



One (1) Programmable Controller Board with High Voltage Amplifer Shield



All Inquiries are Welcome

SPS engineers and staff welcome the opportunity to answer your questions, hear your feedback, and speak with you about the latest developments.

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