

## **For Immediate Release**

### **Contact:**

Bernard Rousseau  
Director of Marketing  
403.282.7335

## **The 1066 PhidgetAdvancedServo 1-Motor can control one Servo Motor with a PWM resolution of 0.007°**

**Users can produce smooth, fluid movements by controlling the motor's position, acceleration and velocity.**

**CALGARY, Alberta, July 7, 2009** — Phidgets Inc. released the 1066 - PhidgetAdvancedServo 1-Motor which allows users to control the position, velocity, and acceleration of one RC servo motor. The PWM to the servo is updated 50 times per seconds and has a resolution of .007°.

“We have had many requests from our customers for a servo motor controller that could drive larger Servo Motors than the ones that our current 1-Motor Controller can handle” says Chester Fitchett, CEO of Phidgets. “As we were designing the new product, we decided to go past building a basic controller and add functionality that allows smoother operation of the servo motor.” Added Chester.

The 1066 also measures the current being consumed the servo motor. This feature is useful to assert if the motor is attached and functioning (not consuming any current) or if it is stalled (consuming maximum current).

The 1066 is powered solely by the USB cable and does not require any additional power source. It can drive servo motors of up to 450mA.

### **Product Specifications**

- Pulse Code Period: Typical: 20ms - Maximum: 25ms
- Minimum Pulse Width: 83.3ns
- Maximum Pulse Width: 2.7307ms
- Output Impedance (control): 600 Ohms
- Position Resolution: 0.0078125° (15-bit)
- Lower Position Limit: -22.9921875°
- Upper Position Limit: 233°

- Velocity Resolution: 0.390625°/s (14-bit)
- Velocity Limit: 6400°/s
- Acceleration Resolution: 19.53125°/s<sup>2</sup> (14-bit)
- Acceleration Limit: 320000°/s<sup>2</sup>
- Time Resolution: 83.3ns
- Minimum Power Supply Voltage: 6V
- Maximum Power Supply Voltage: 15V
- Maximum Motor Current Surge: 1.6A
- Motor Overcurrent Trigger (combined): 12A
- Operating Motor Voltage: 5.0V
- Device Current Consumption: 36mA max

## **Software Environment**

“Unlike a lot of our competitor’s products that require their users to write some firmware code in order to use their sensor, we are completely “Plug and Play” says Bernard Rousseau, Director of Marketing. “With Phidgets, you plug it in and start using it and when it comes to programming, the user, not us, decides which operating system and which computer language he wants to use”, added Rousseau.

Users can program Phidgets using a simple yet powerful and well documented Application Programming Interface (API) that is supported under Windows (2000, XP, Vista), Windows CE, Mac OS X, and Linux. Users can write programs in Visual Basic, VB.NET, C#, C/C++, Flash/Flex, Java, Labview, Matlab, ActionScript 3.0, and Cocoa.

Phidgets also provides programming examples for all its products to help programmers write their own programs. The API Libraries as well as the examples and the documentation are available at no charge on [www.Phidgets.com](http://www.Phidgets.com).

## **Pricing and Availability**

The 1066 PhidgetAdvancedServo 1-Motor is available now. The suggested resale price is \$40.00 Canadian.

## **About Phidgets**

Phidgets, Inc. is a technology leader in the design and manufacture of low-cost control and sensing modules connected to personal computers through the USB port. Phidgets products are ideally suited for fast prototyping. The privately held company is based in Calgary, Alberta, Canada.

## **Contact Information**

Bernard Rousseau  
Director of Marketing

Address: Phidgets Inc.  
2715A 16A Street N.W.  
Calgary, Alberta, Canada  
T2M 3R7

Web Site: [www.Phidgets.com](http://www.Phidgets.com)

Phone: 1-403-282-7335

Fax: 1-403-282-7332

E-mail: [bernard@phidgets.com](mailto:bernard@phidgets.com)

Sales Inquiries: [sales@phidgets.com](mailto:sales@phidgets.com)

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