Digital-to-Analog Converter (DAC)  
Actuator Data Sheet

SPECIFICATIONS
> Range: 0-3.3V (with VCC=3.3V)
> Output Current: 5mA (max.)
> Bandwidth: 0-8.7Hz
> Consumption: ~17μA
> Input Voltage Range: 1.8-5.5V

FEATURES
> PWM input
> Filtered output
> Small form factor
> Easy-to-use

APPLICATIONS
> Synchronization with third-party devices
> Control of third-party devices (e.g. LED)
> Event annotation

GENERAL DESCRIPTION
This block provides a controllable analog output to drive basic actuators, for synchronization with third-party devices via their analog input ports or for multi-level event annotation. When used with BITalino (r)evolution, this actuator connects to the PWM port enabling an 8-bit output resolution. The on-board filter guarantees a steady (non-pulsated) output easily handled on the target device.

ORDERING GUIDE

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>SENS-DAC-NC</td>
<td>Digital-to-Analog Converter (DAC) without connectors</td>
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<tr>
<td>SENS-DAC-UCE6</td>
<td>Digital-to-Analog Converter (DAC) with UC-E6 socket for seamless plug &amp; play connection to a BITalino (r)evolution Plugged or Core</td>
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<tr>
<td>SENS-DAC-SHER4</td>
<td>Digital-to-Analog Converter (DAC) with a Molex Sherlock 4-pin socket for easy power and signal cable connection or pin breakout using PCB wires</td>
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BEWARE: DIRECT OR INDIRECT COUPLING TO THE MAINS MAY RESULT IN SHOCKING HAZARD