

The Mini-Battery-Supervisor is a tiny circuit which makes it possible use a battery pack as power supply for low-power USB electronic appliances, while keeping the ability to connect a USB cable when needed.

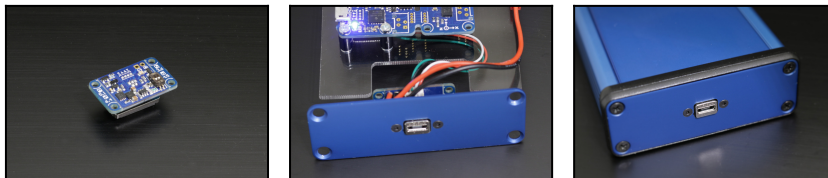
More precisely, the Mini-Battery-Supervisor has four purposes:

- It reduces the voltage provided by the battery to 5V, which is the maximal voltage expected by USB powered appliances;
- It monitors the battery voltage to cleanly cut the appliance power supply when the battery is fully unloaded, in order to protect the appliance and the battery;
- It makes it possible to connect simultaneously the battery and an external USB host to the appliance, for configuration and diagnosis purposes;
- It features a rugged panel-mount Micro-B USB connector, which can be integrated in the front panel of an enclosure for instance.

### Specifications

Product ID	MUSBLDO0
USB connector	micro-B
Thickness	16 mm
Width	18 mm
Length	30 mm
Weight	7 g
Max Current (continuous)	500 mA
Max Current (peak)	1.5 A
Threshold voltage	3.5 / 4.5 / 5 / 6.4 V
IEC protection class	class III
Normal operating temperature	5...40 °C
Extended operating temperature <sup>‡</sup>	-40...85 °C
RoHS compliance	RoHS II (2011/65/UE)

<sup>‡</sup> The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.



For more information: [www.yoctopuce.com/EN/products/mini-battery-supervisor](http://www.yoctopuce.com/EN/products/mini-battery-supervisor)