

## MedWi Mobile Machine Controllers

General-purpose, flexible, powerful, and expandable controller units for mobile machines. Suited for control of hydraulic pumps, valves, etc., and equipped with inputs for several types of sensors: digital, voltage analog, current analog, frequency, etc.

This controller is particularly intended for off-road / off-track vehicles. It can be used both as a stand-alone controller and as a part of a distributed machine control system.

**It features proprietary, 2.4GHz wireless connectivity, in order to reduce cable requirements,** and Bluetooth connectivity, for an easy configuration and maintenance.

It also has a 3-axes accelerometer, and suitable software to determine the spatial orientation of the controller, and, therefore, of the machine component on which it is mounted.



### KEY FEATURES INCLUDE:

- Wide DC power supply
- power ON/OFF DC outputs (2 A)
- power PWM outputs (2 A)
- analog/digital/frequency inputs
- Dual core microprocessor
- CAN interface
- **2.4GHz wireless connectivity**
- **3 axes accelerometer**

## Technical data

Power Supply	<ul style="list-style-type: none"><li>■ Functional: 10 V - 28 V DC</li><li>■ Maximum Continuous: 30 V DC</li><li>■ Reverse battery protection</li><li>■ Overvoltage protection (including load dump)</li></ul>
Inputs	<ul style="list-style-type: none"><li>■ Input protection with clamp diodes on both analog and digital inputs</li><li>■ RC Filter on both analog and digital inputs</li><li>■ Customizable voltage range on both analog and digital inputs</li><li>■ Customizable pull-up or pull-down</li><li>■ Up to 10 KHz frequency input</li></ul>
Outputs	<ul style="list-style-type: none"><li>■ Power ON/OFF DC outputs and power PWM outputs</li><li>■ 2 A continuous output current</li><li>■ 0 – 1 KHz PWM</li><li>■ Overload protection</li><li>■ Current limitation</li><li>■ Short circuit protection</li><li>■ Thermal shutdown</li><li>■ Overvoltage protection (including load dump)</li><li>■ Fast demagnetization of inductive loads</li><li>■ Reverse battery protection</li><li>■ Undervoltage shutdown with auto-restart and hysteresis</li><li>■ Combination of digital and analog signals for diagnosis purpose</li><li>■ Open load detection in ON-state</li><li>■ Loss of ground protection</li><li>■ Electrostatic discharge (ESD) protection</li><li>■ High side driving</li><li>■ Current feedback on outputs, for hardware real time output current control.</li></ul>
Connectivity	<ul style="list-style-type: none"><li>■ 2.4 GHz wireless, proprietary</li><li>■ Bluetooth®</li><li>■ CAN</li></ul>
Connector	<ul style="list-style-type: none"><li>■ FCI 24 ways Sicma sealed connector</li><li>■ Customizable with other connectors</li></ul>
Temperature range	<ul style="list-style-type: none"><li>■ Storage and Operating without output current: -30 to +105 °C</li><li>■ Operating with maximum output current: -30 to +80 °C</li></ul>
Protection provided by enclosure	<ul style="list-style-type: none"><li>■ IP 65</li></ul>