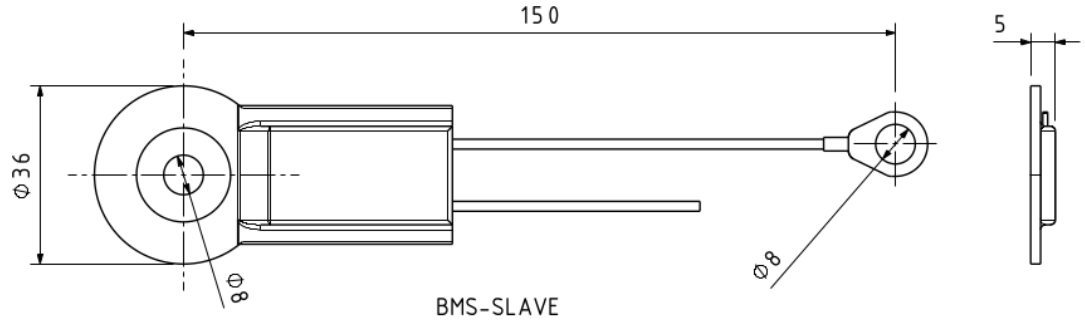
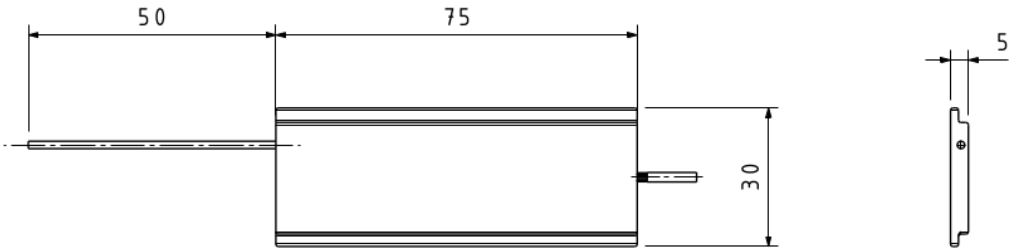
Cognitio Wireless BMS DIMENSION DRAWING



BMS-SLAVE

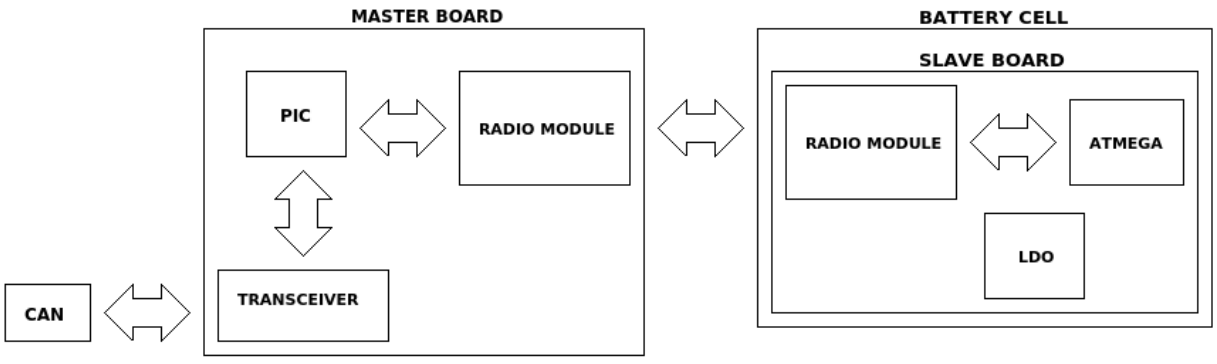


BMS-MASTER

OPERATION

The BMS consists out of one master board and arbitrary number of slave boards which parasitically connect to a battery cell.
Upon request from the master, the slave transmits the acquired data about cell's voltage and temperature.
The communication between the master board and the cell boards is established using a low-power RF transceiver.
Based on data from all the cells, the master board orders the cell boards to perform passive balancing when necessary.

BLOCK SCHEME



BENEFIT

Cognitio wireless BMS is a very robust and reliable system that easily connects to a battery of almost any size and shape.
It requires no connectors or soldering which simplifies mounting in great deal.
The BMS is designed to operate in harsh conditions which makes this system applicable through a wide range of user specific applications.

TECHNICAL DATA

	MASTER	SLAVE
Supply voltage	12/24 VDC	2.5 - 5 VDC
Current	0.02 A	0.02 A
Communication	• radio (434, 868, 902 MHz) • CAN	• radio (434, 868, 902 MHz)

MOUNTING AND CONNECTING

The slave board bolts on the negative terminal of the cell while the ring terminal of the board connects to the positive terminal of the battery cell.
The master board connects using the 5-pin NPPG connector respecting the pinout shown on the table below.

Pin	Signal
1	24 V
2	GND
3	NC
4	CAN H
5	CAN L

CONTACT

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