

PM2



Description

Power management central control unit for PM1 CAN multiplexed system

Specifications

Parameter	Value
Operating Voltage	7.5V to 18V
Power Consumption	<100mA @ 12V
Outputs	
Master Relay Driver	1A, 20hm Driver
12 x LED Drivers	3W
Inputs	
Battery Sense	Differential Analogue Input
8 x Switch Inputs	1 x Pull high, 7 x 5V Pull to ground
1 x Override Switch	5V Pull to ground
25 x Keypad Inputs	Matrix of 10 inputs, <40hm momentary switch
Communications	
2 x CAN Bus	CAN 2.0
1 x Serial	RS232
Metrics	
Size	129 x 84 x 40mm
Weight	240g
Case	Anodised Aluminium

Connector Details

ID	Connector	Loom Side Connector
1	AS212-35PN	AS612-35SN
2	AS212-35PA	AS612-35SA

Pin Out

Connector	1	
Pin	Name	Function/Notes
1	POWER +	
2	POWER -	
3	SW10	Emergency override switch
4	Analogue Ground	
5	Battery Sense +ve	
6	Battery Sense -ve	
7	Master Relay Drive	
8	CAN 1 Hi	
9	CAN 1 Lo	
10	SW8	Active High
11	SW3	Active Low
12	SW1	
13	SW2	
14	CAN 2 Hi	
15	CAN 2 Lo	
16	SW4	Active Low
17	SW5	
18	SW6	
19	SW7	
20	Serial RS232 Transmit	
21	Serial RS232 Receive	
22	Ground	

Connector	2	
Pin	Name	Function/Notes
1	Key Strobe 1	Matrix of Keypad switches
2	Key Strobe 2	
3	Key Strobe 3	
4	Key Strobe 4	
5	Key Strobe 5	
6	Key Input 1	
7	Key Input 2	
8	Key Input 3	
9	Key Input 4	
10	Key Input 5	
11	LED Drive 1	
12	LED Drive 2	
13	LED Drive 3	
14	LED Drive 4	
15	LED Drive 5	
16	LED Drive 6	

17	LED Drive 7	
18	LED Drive 8	
19	LED Drive 9	
20	LED Drive 10	
21	LED Drive 11	
22	LED Drive 12	

Keypad Matrix

(Connector 2 pins 1-10)

PIN	1	2	3	4	5
6	5	10	15	20	25
7	4	9	14	19	24
8	3	8	13	18	23
9	2	7	12	17	22
10	1	6	11	16	21

Keypad ID

Example: pins 2 and 6 gives keypad ID input of 10.

Dimensions

