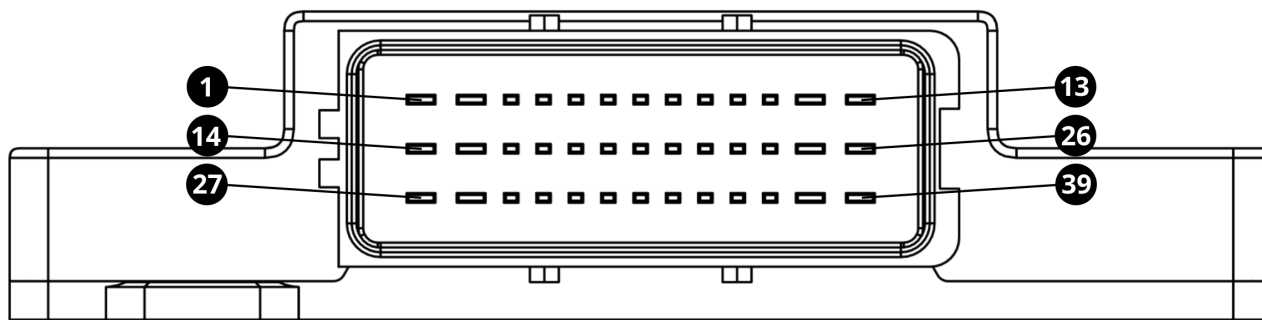


PMU-16 / PMU-16 DL Pinout v1.3

Device view:



Connector part numbers:

Connector series	Sicma / FCI 39 Positions	
Terminal 1.5 mm	211CC2S2160P	14-17 AWG
Terminal 2.8 mm	211CC3S2120	14-16 AWG
Terminal 2.8 mm	211CC3S3120	10-12 AWG

Power pins

Name	Count	Description
+12V battery	1	Main power supply connection for outputs and PMU itself. Connected through the stud in the middle of the device. Maximum constant current: 150 A.
+12V sw	1	+12V signal input to switch the PMU on or off. Should be connected to +12V after the ignition switch.
Ground	1	Ground connection for the device supply current, elements connected to inputs and flyback return path. Connect to the supply ground using the thickest and shortest connection possible to provide good flyback current path.
+5V output	1	+5V sensor supply. Can provide up to 500 mA of current.

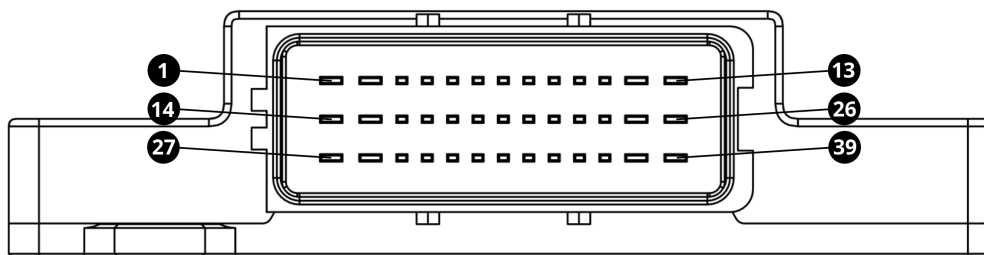
Communication pins

Name	Count	Description
CAN1H/L	2	CAN bus, fixed 1 Mbps, used for communication with PC and peripheral devices. Communication with PC software can only be done through this CAN bus. No internal termination resistor. External termination is required. Fully configurable communication.
CAN2H/L	2	CAN bus, configurable speed, used for communication with peripheral devices. Configurable speed: 125, 250, 500, and 1000 kbps. Software controlled termination resistor. Fully configurable communication

Input pins		
Name	Count	Description
Input A1-A16	16	Analog signal input. Input for analog signals (voltage). Analog signals must be connected between these inputs and ground. Pull resistors can be selected through software independently for every input. The available options are 1MΩ pull down, 10kΩ pull down, and 10kΩ pull up. Measurement frequency: 500 Hz. Measurement resolution: 10 bit. Measurement voltage range: 0-5 V. Maximum input voltage: 20 V.

Output pins		
Name	Count	Description
Output O1-O5 Output O12-O16	10	25 A high side outputs. Power outputs that can be disconnected (Hi-Z) or connected to the supply voltage (+12 V). Outputs can be connected in parallel to increase current capabilities. Configurable overcurrent protection. Short circuit/overtemperature protection. Current measurement. PWM capability. Minimum current measured: 0-5 A (1 A typical). Maximum current measured: 120 A. Maximum peak current: 120 A. Maximum peak current time: 2s. Maximum constant current: 25 A. Minimum PWM frequency: 4 Hz. Maximum PWM frequency: 400 Hz. Voltage measurement range: 0-16 V. Turn off voltage clamp: 36 V.
Output O6-O11	6	15 A high side outputs. Power outputs that can be disconnected (Hi-Z) or connected to the supply voltage (+12 V). Outputs can be connected in parallel to increase current capabilities. Configurable overcurrent protection. Short circuit/overtemperature protection. Current measurement. Integrated flyback diode. Output O8 has additional functionality to allow wipers motor braking. Minimum current measured: 0-1 A (0.5 A typical). Maximum current measured: 60 A. Maximum peak current: 120 A. Maximum peak current time: 2s. Maximum constant current: 15 A. Voltage measurement range: 0-16 V.

Device view:



Pin	Name	Description
1	Output O13	25 A high side output.
2	Output O12	25 A high side output.
3	Output O11	15 A high side output.
4	Output O10	15 A high side output.
5	Output O9	15 A high side output.
6	Input A9	Analog signal input.
7	+12V sw	+12V signal input to switch the PMU on or off.
8	Input A14	Analog signal input.
9	Output O8 (wipers)	15 A high side output. Additional functionality for wipers motor braking.
10	Output O7	15 A high side output.
11	Output O6	15 A high side output.
12	Output O5	25 A high side output.
13	Output O4	25 A high side output.
14	Output O14	25 A high side output.
15	+5V output	+5V sensor supply.
16	Input A2	Analog signal input.
17	Input A4	Analog signal input.
18	Input A6	Analog signal input.
19	Input A8	Analog signal input.
20	Input A11	Analog signal input.
21	Input A13	Analog signal input.
22	Input A16	Analog signal input.
23	CAN1H (PC comm)	CAN bus, fixed 1Mbps, used for communication with PC and peripheral devices.
24	CAN2H	CAN bus, configurable speed, used for communication with peripheral devices.
25	Ground	Device ground.
26	Output O3	25 A high side output.
27	Output O15	25 A high side output.
28	Output O16	25 A high side output.
29	Input A1	Analog signal input.
30	Input A3	Analog signal input.
31	Input A5	Analog signal input.
32	Input A7	Analog signal input.
33	Input A10	Analog signal input.
34	Input A12	Analog signal input.
35	Input A15	Analog signal input.
36	CAN1L (PC comm)	CAN bus, fixed 1Mbps, used for communication with PC and peripheral devices.
37	CAN2L	CAN bus, configurable speed, used for communication with peripheral devices.
38	Output O1	25 A high side output.
39	Output O2	25 A high side output.

Document revision history:

Revision	Date	Changes
1.3	2026-09-21	- clarified current measurement specification
1.2	2025-04-16	- corrected wire gauge range for 211CC2S2160P terminal
1.1	2023-10-06	- battery connection maximum current value added - minor corrections
1.0	2023-09-27	- first public version