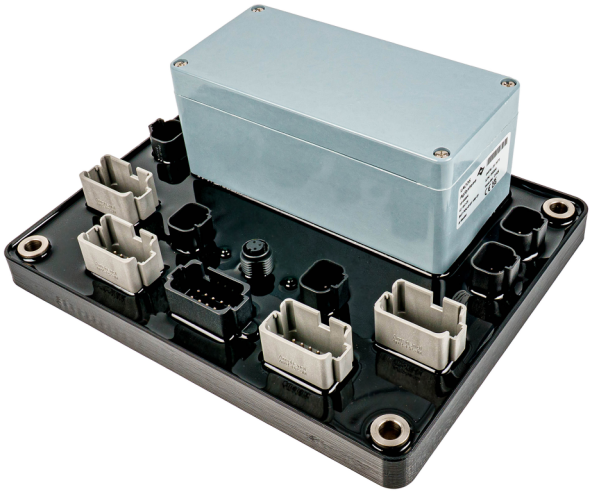
ECU Central electronics



The ECU central electronics serve as the central interface for distributing CAN and power to the machine.

Technical data

Environmental conditions

Operating temperature	-20°C - +60°C
Storage temperature	-40°C - +85°C

ECO I/O outputs

Number of outputs	4
Max. Current	15 A
Output voltage	12 VP

12V/GND outputs

Number of outputs	4
Max. Current	15 A
Output voltage	12 VP

12V output to the CMU

Number of outputs	1
Max. Current	8 A
Output voltage	12 VP

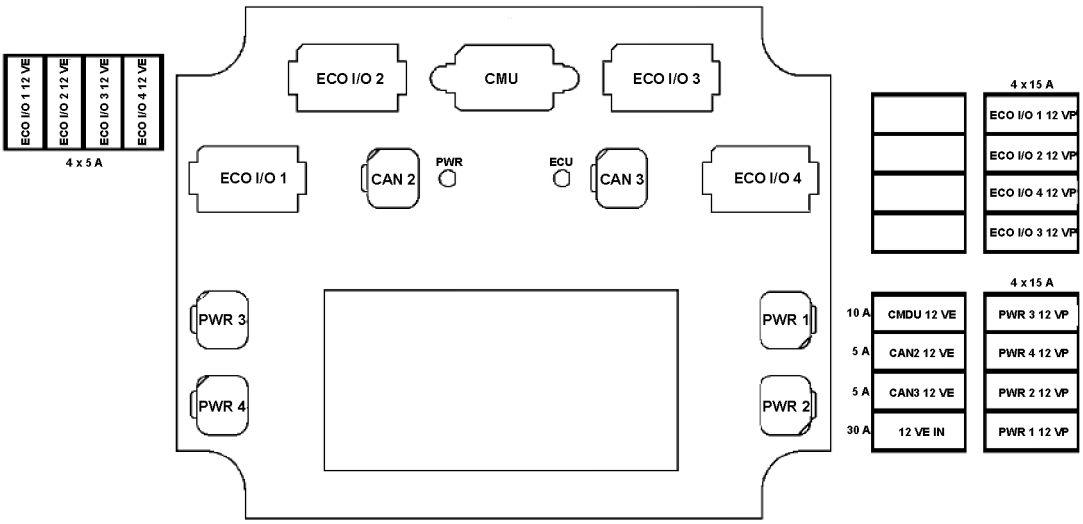
12V/CAN outputs

Number of outputs	2
Max. Current	5 A
Output voltage	12 VE

Power supply

Operating voltage	12 V
Voltage range	8...16 V
Max. total current	60 A
Voltage range	12 VP - Power supply 12 VE - ECU supply
Conformity	Dielectric strength and protection in accordance with applicable standards

Overview



4x ECO I/O connectors

Properties

Connector type	AT04-12PA-BM03
Protection class	IP67
Mounting	100 mating cycles; locking mechanism

Pin assignment

Pin	Signal	Remark
1	12 VP	15 A fuse
2	12 VP	15 A fuse
3	12 VE	5 A fuse
4	CAN_H_OUT	
5	CAN_L_OUT	
6	CAN_EN_1	
7	CAN_EN_2	
8	CAN_L_In	
9	CAN_H_In	

Pin	Signal	Remark
10	GND	
11	GND	
12	GND	

1x CMU connector

Properties

Connector type	AT04-18PA-BM13BK
Protection class	IP67
Mounting	100 mating cycles; locking mechanism

Pin assignment

Pin	Signal	Remark
1	CAN_0_H	
2	CAN_0_L	
3	CAN_1_H	
4	CAN_1_L	
5	CAN_2_H	
6	CAN_2_L	
7	CAN_3_H	
8	CAN_3_L	
9	5 V+	
10	USB_D+	
11	USB_D-	
12	USB_GND	
13	ETH_D+	
14	ETH_D-	
15	12 VE	10 A fuse
16	GNDE	
17	CAN_Hx	
18	CAN_Lx	

2x CAN/12V connectors

Properties

Connector type	AT04-4P-BM03
Protection class	IP67
Mounting	100 mating cycles; locking mechanism

Pin assignment

Pin	Signal	Remark
1	CAN2_H	
2	CAN2_L	
3	12 VE	5 A fuse
4	GND	

4x 12V/GND connectors

Properties

Connector type	AT04-2P-BM03
Protection class	IP67
Mounting	100 mating cycles; locking mechanism

Pin assignment

Pin	Signal	Remark
1	GND	
2	GND	
3	12 VP	
4	12 VP	15 A fuse