BASIC

- 34 High power outputs for motors
- 20 Low power outputs for lamps, solenoids etc.
- 2 Stop button support
- 4 Fan support
- 6 H-Bridge for actuators and low power motors
- Step down for computer power (19.5V)
- Up to 2 CAN lines
- Up to 4 RS-232 Serial communications
- Up to 6 RS-485 Serial Communication
- Up to 4 additional Step downs for 12V or 5V.
- Up to 16 Analog Sensors
- Up to 16 switch/button Sensors
- 32 digital sensors
- Up to 4 pressure sensors (optional)

EATURES		
Function	Details	
High Power outputs	Current up to 6A on single output	
	Peak power up to 20A	
	 Output pins can be combined for higher current loads (up to 42A) 	
	Overcurrent Protection (OCP)	
Low Power outputs	Current up to 1A on single output	
	 Peak power up to 2.7A 	
	 Output pins can be combined for higher current loads (up to 4A) 	
	Overcurrent Protection (OCP)	
H-Bridge	Current up to 2A	
	Short circuit support	
	 Integrated Current Regulation 	
	Overcurrent Protection (OCP)	
	Automatic Fault Recovery	
Fans	Current 700mA	
	PWM control	
	TACH input*	
Step-downs	Switch ON/OFF	
	Output "power good" reference	
	Step-down for pc (19.5V)	
Safety	 Two Stop buttons supported 	
	Output disabling with stop button	
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Analog Sensors	Up to 16 sensors supported	
	Sensor power up to 200mA*	
	Selectable sensors voltage	
Digital Sensors	Up to 48 digital sensor inputs	
	Selectable sensors voltage	
	Up to 8 independent power lines	
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Load Cells	Supported 2 load cells *	

Parameter	Parameter Name	Value			Unit
		Min	Typical	Max]
	Operating voltage:	20	24	32	V
	Continuous current	-	40	50	А
	PB-DRV terminal output current	-	-	40	А
	PB-PRI terminal output current	-	-	30	Α
	PB-12V terminal input voltage	6	12	32	V
	PB-12V terminal input current	-	-	40	А
	PB-UPS terminal input current	-	-	30	Α

Electrical Characteristics by feature groups

Feature group	Current limit	Unit
HIGH POWER OUTPUT	6*	Α
LOW POWER OUTPUT	1*	Α
H-BRIDGES	2	Α
STEP-DOWNS	6	Α
FANS	700	mA
STOP LED	200	mA
AIN-VCC-*	200	mA
USS-VCC-*	200	mA

^{*}Can connect more outputs from the same cluster for higher current

SPECIFICATIONS

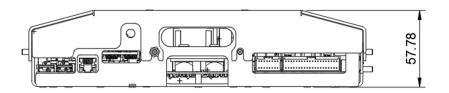
• **Dimensions**: 283x263x58mm

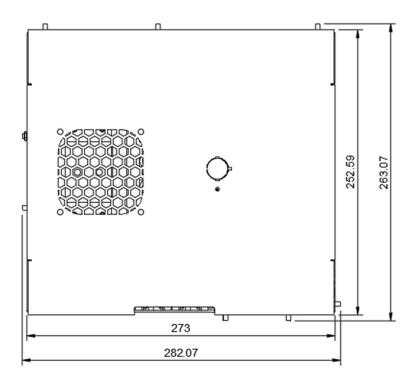
• Weight:

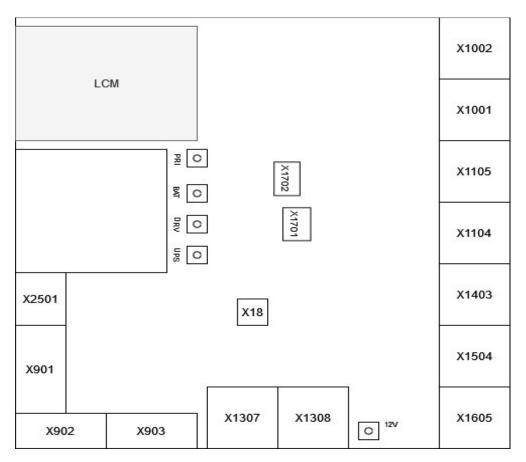
Communication: ethernet,

Operating temperature: 0 to 50 °C
 Storage temperature: -20 to 70 °C

• **Humidity:** 10 to 90% RH (non-condensing)

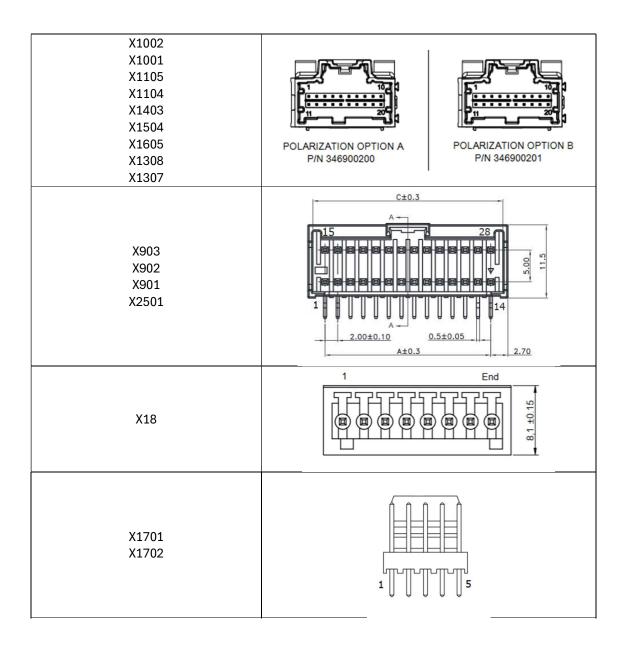






PDM connectors	Connector manufacturer	Connector part number
X1002	Molex	34690-0201
X1001	Molex	34690-0201
X1105	Molex	34690-0201
X1104	Molex	34690-0201
X1403	Molex	34690-0200
X1504	Molex	34690-0200
X1605	Molex	34690-0200
X1308	Molex	34690-0200
X1307	Molex	34690-0200
X903	Wurth Elektronik	62404021722
X902	Wurth Elektronik	62404021722
X901	Wurth Elektronik	62404021722
X2501	Wurth Elektronik	62401621722
X1701	Molex	47053-1000/ 22272041
X1702	Molex	47053-1000/ 22272041
X18	Wurth Elektronik	691382000002

Connector pinout schematic:



QUICK SETUP GUIDE

- 1. Connect PDM to Battery with Anderson connector
- 2. Add Stop button (minimum requirements connect Stop Buttons NC contacts to DRIVER_DIS and DRIVER-DIS_GND pins on X2501 Connector).
- 3. Connect Light tower wires to X1104 connectors A1, A2 and A11 contacts.
- 4. Connect Ethernet to pc
- 5. Turn on System-ON switch.