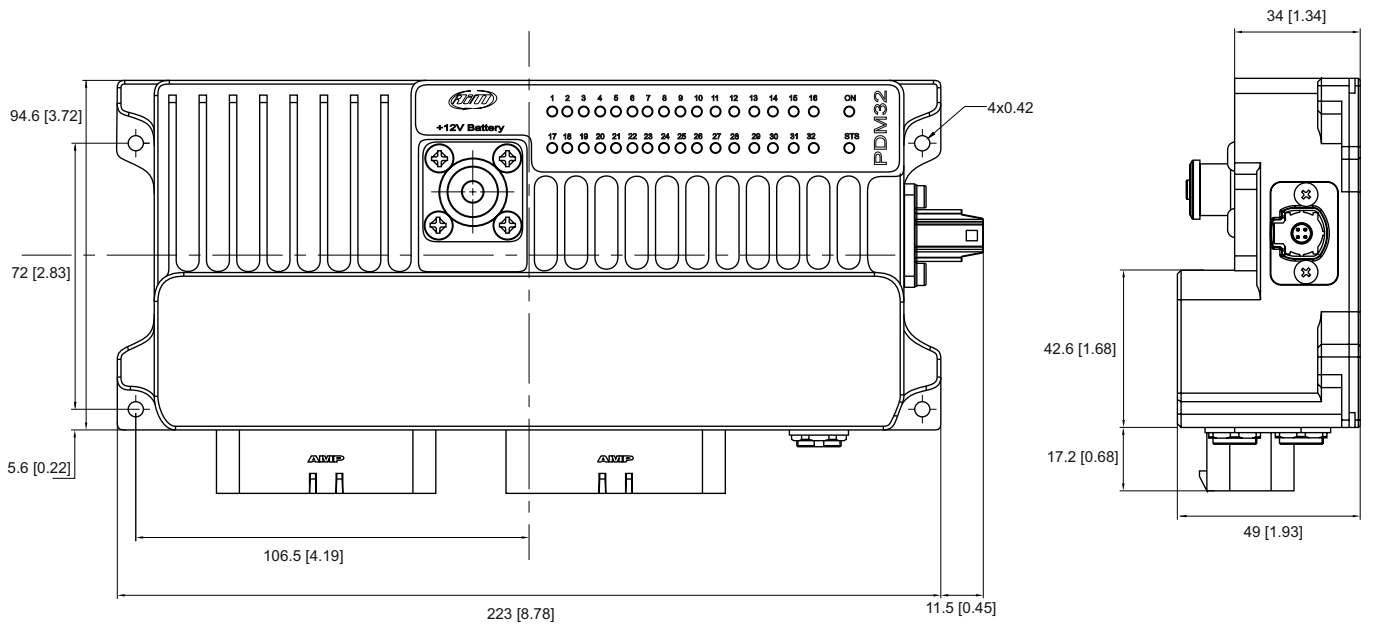
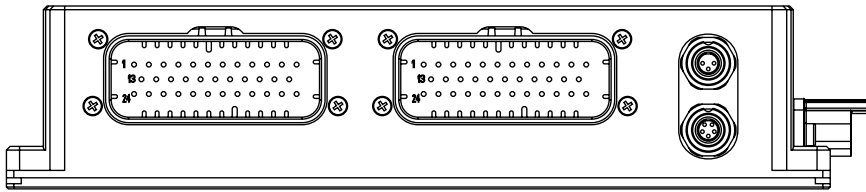




# AiM PDM32

## Power Distribution Module





# AiM PDM32

## Power Distribution Module

### Technical specifications

<b>LEDs</b>	32 RGB LEDs + 1 PDM ON + 1PDM STS (Status)
<b>Inputs</b>	14 fully configurable, recorded at max 500 Hz each: <ul style="list-style-type: none"><li>▪ 8 analog (0-5V ; 0-12V)/digital inputs</li><li>▪ 4 digital inputs</li><li>▪ 2 speed inputs</li></ul>
<b>Power outputs</b>	4 rated up to 20 A (high side) 12 rated up to 15 A (high side) 12 rated up to 10 A (high side) 4 rated up to 35 A (high side/half bridge/low side/configurable PWM at max 10 KHz) Protected for: over voltage, under voltage, short circuit, over current, over temperature Total max current: 120 A
<b>Lin bus</b>	1
<b>CAN connections</b>	3
<b>Inertial platform</b>	3 axis $\pm 5G$ accelerometer + 3axis gyro + 3 axis magnetometer
<b>Internal memory</b>	4 GB
<b>External modules</b>	GPS Module, Channel Expansion, TC Hub, Lambda Controller, SmartyCam HD, Formula Steering Wheel, Remote I/O pushbutton module
<b>External Analog Camera input</b>	2
<b>Connectors</b>	2 AMP connectors + 2 Binder connectors + 1 Amphenol Surlok connector + 1 Rosenberger connector
<b>Remote display connection</b>	1 AiM stream output
<b>Body</b>	Anodized Aluminum
<b>Dimensions</b>	234.5 x 94.6 x 49.5 mm
<b>Weight</b>	761g
<b>Waterproof</b>	IP65



# AiM PDM32

## Power Distribution Module

### Part numbers

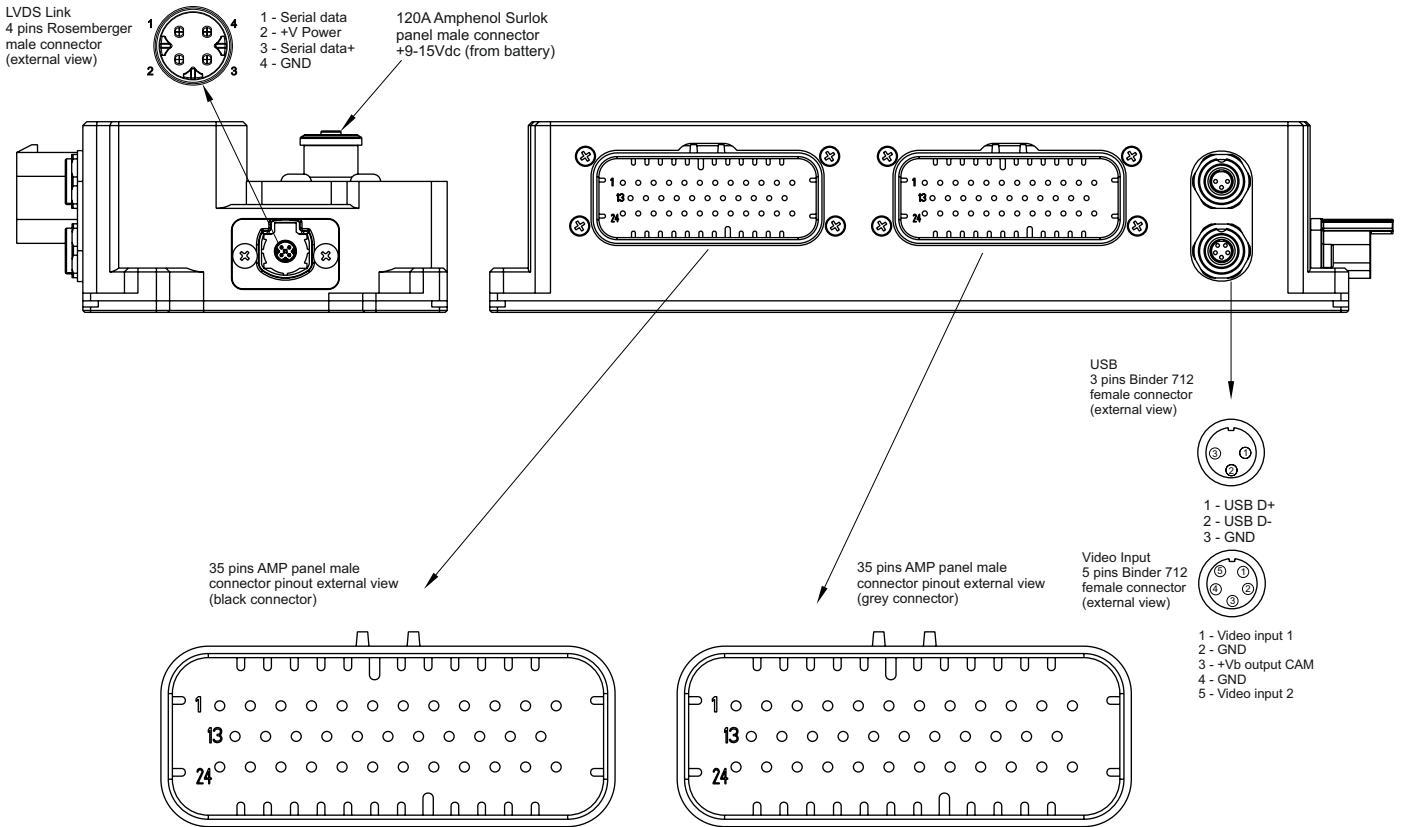
<b>XC1PDM3201G050</b>	PDM32 Display connector version + 50 cm GPS Module cable length
<b>XC1PDM3201G130</b>	PDM32 Display connector version + 130 cm GPS Module cable length
<b>XC1PDM3201G200</b>	PDM32 Display connector version + 200 cm GPS Module cable length
<b>XC1PDM3201G400</b>	PDM32 Display connector version + 400 cm GPS Module cable length
<b>XC1PDM3201R200</b>	PDM32 Display connector version + 200 cm GPS Module «Roof» version cable length
<b>XC1PDM3201R400</b>	PDM32 Display connector version + 400 cm GPS Module «Roof» version cable length
<b>XC1PDM3202G050</b>	PDM32 with connector for display + 50 cm GPS Module cable length
<b>XC1PDM3202G130</b>	PDM32 with connector for display + 130 cm GPS Module cable length
<b>XC1PDM3202G200</b>	PDM32 with connector for display + 200 cm GPS Module cable length
<b>XC1PDM3202G400</b>	PDM32 with connector for display + 400 cm GPS Module cable length
<b>XC1PDM3202R200</b>	PDM32 with connector for display + 200 cm GPS Module «Roof» version cable length
<b>XC1PDM3202R400</b>	PDM32 with connector for display + 400 cm GPS Module «Roof» version cable length
<b>XC1PDM32D06G050C2</b>	Kit PDM32, Display 6", 2 m cable length, 50 cm GPS Module cable length
<b>XC1PDM32D06G130C2</b>	Kit PDM32, Display 6", 2 m cable length, 130 cm GPS Module cable length
<b>XC1PDM32D06G200C2</b>	Kit PDM32, Display 6", 2 m cable length, 200 cm GPS Module cable length
<b>XC1PDM32D06G400C2</b>	Kit PDM32, Display 6", 2 m cable length, 400 cm GPS Module cable length
<b>XC1PDM32D06R200C2</b>	Kit PDM32, Display 6", 2 m cable length, 200 cm GPS Module «Roof» version cable length
<b>XC1PDM32D06R400C2</b>	Kit PDM32, Display 6", 2 m cable length, 400 cm GPS Module «Roof» version cable length
<b>XC1PDM32D10G050C2</b>	Kit PDM32, Display 10", 2 m cable length, 50 cm GPS Module cable length
<b>XC1PDM32D10G130C2</b>	Kit PDM32, Display 10", 2 m cable length, 130 cm GPS Module cable length
<b>XC1PDM32D10G200C2</b>	Kit PDM32, Display 10", 2 m cable length, 200 cm GPS Module cable length
<b>XC1PDM32D10G400C2</b>	Kit PDM32, Display 10", 2 m cable length, 400 cm GPS Module cable length
<b>XC1PDM32D10R200C2</b>	Kit PDM32, Display 10", 2 m cable length, 200 cm GPS Module «Roof» version cable length
<b>XC1PDM32D10R400C2</b>	Kit PDM32, Display 10", 2 m cable length, 400 cm GPS Module «Roof» version cable length
<b>XC1D06000</b>	Display 6"
<b>XC1D10000</b>	Display 10"



# AiM PDM32

## Power Distribution Module

### Pinout



PIN	DESCRIPTION	PIN	DESCRIPTION
1 ●	High power output 1	19	Low power output 6
2	Mid power output 1	20	Low power output 7
3	Mid power output 2	21	Low power output 8
4	Mid power output 3	22	CAN AiM High
5	Mid power output 4	23 ●	High power output 2
6	Mid power output 5	24 ●	High power output 3
7	Mid power output 6	25 ●	High power output 3
8	Mid power output 7	26	Channel input 11
9	Mid power output 8	27	Channel input 12
10	GND	28	CAN2 High
11	CAN AiM Low	29	CAN2 Low
12 ●	High power output 2	30	CAN ECU High/RS232TX
13 ●	High power output 1	31	CAN ECU Low/RS232RX
14	Low power output 1	32	+Vb ext CAN
15	Low power output 2	33	+Vb out CAN
16	Low power output 3	34 ●	High power output 4
17	Low power output 4	35 ●	High power output 4
18	Low power output 5		

PIN	DESCRIPTION	PIN	DESCRIPTION
1	Half bridge power output 1	19	Speed 2 input
2	Half bridge power output 1	20	Speed 1 input
3	Low power output 9	21	Channel input 9
4	Mid power output 9	22	Channel input 10
5	Mid power output 10	23	Ignition
6	Low power output 10	24	Half bridge power output 3
7	Low power output 11	25	Half bridge power output 3
8	Mid power output 11	26	Channel input 1
9	Mid power output 12	27	Channel input 2
10	Low power output 12	28	Channel input 3
11	Half bridge power output 2	29	Channel input 4
12	Half bridge power output 2	30	Channel input 5
13	P GND	31	Channel input 6
14	P GND	32	Channel input 7
15	LIN	33	Channel input 8
16	+5V Analog Vreference	34	Half bridge power output 4
17	+Vb output	35	Half bridge power output 4
18	GND		

- High Power Out 1 has internal serie diode
- High Power Outs (1,2,3,4) have internal freewheeling diode