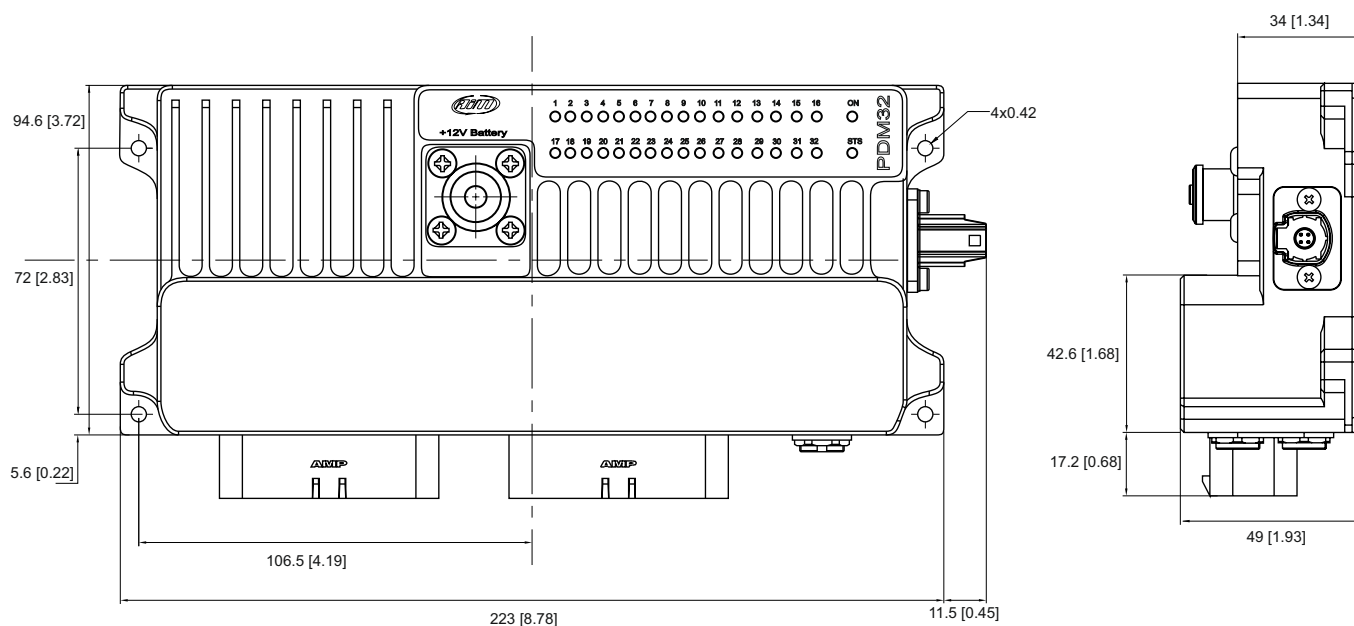
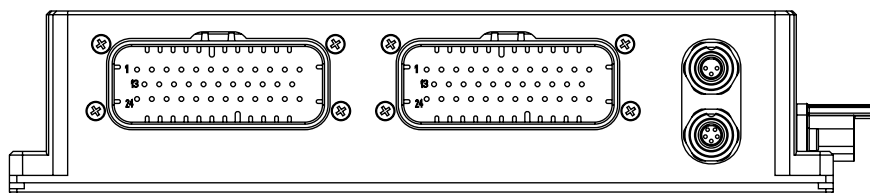




AiM PDM32

Power Distribution Module





AiM PDM32

Power Distribution Module

Technical specifications

LEDs	32 RGB LEDs + 1 PDM ON + 1PDM STS (Status)
Inputs	14 fully configurable, recorded at max 500 Hz each: ■ 8 analog (0-5V ; 0-12V)/digital inputs ■ 4 digital inputs ■ 2 speed inputs
Power outputs	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
Lin bus	1
CAN connections	3
Inertial platform	3 axis $\pm 5G$ accelerometer + 3axis gyro + 3 axis magnetometer
Internal memory	4 GB
External modules	GPS Module, Channel Expansion, TC Hub, Lambda Controller, SmartyCam HD, Formula Steering Wheel, Remote I/O pushbutton module
External Analog Camera input	2
Connectors	2 AMP connectors + 2 Binder connectors + 1 Amphenol Surlok connector + 1 Rosenberger connector
Remote display connection	1 AiM stream output
Body	Anodized Aluminum
Dimensions	234.5 x 94.6 x 49.5 mm
Weight	761g
Waterproof	IP65



AiM PDM32

Power Distribution Module

Part numbers

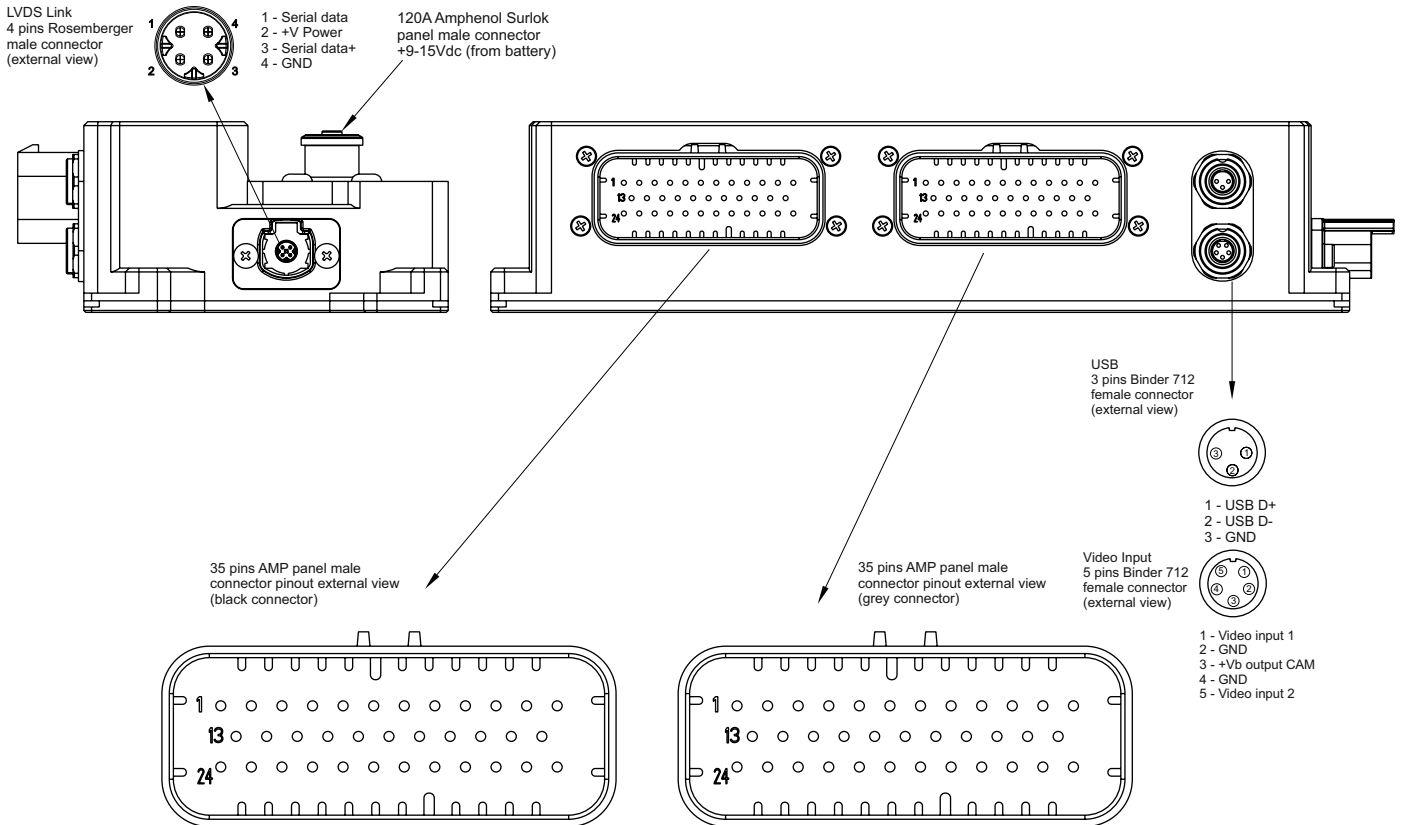
XC1PDM3201G050	PDM32 Display connector version + 50 cm GPS Module cable length
XC1PDM3201G130	PDM32 Display connector version + 130 cm GPS Module cable length
XC1PDM3201G200	PDM32 Display connector version + 200 cm GPS Module cable length
XC1PDM3201G400	PDM32 Display connector version + 400 cm GPS Module cable length
XC1PDM3201R200	PDM32 Display connector version + 200 cm GPS Module «Roof» version cable length
XC1PDM3201R400	PDM32 Display connector version + 400 cm GPS Module «Roof» version cable length
XC1PDM3202G050	PDM32 with connector for display + 50 cm GPS Module cable length
XC1PDM3202G130	PDM32 with connector for display + 130 cm GPS Module cable length
XC1PDM3202G200	PDM32 with connector for display + 200 cm GPS Module cable length
XC1PDM3202G400	PDM32 with connector for display + 400 cm GPS Module cable length
XC1PDM3202R200	PDM32 with connector for display + 200 cm GPS Module «Roof» version cable length
XC1PDM3202R400	PDM32 with connector for display + 400 cm GPS Module «Roof» version cable length
XC1PDM32D06G050C2	Kit PDM32, Display 6", 2 m cable length, 50 cm GPS Module cable length
XC1PDM32D06G130C2	Kit PDM32, Display 6", 2 m cable length, 130 cm GPS Module cable length
XC1PDM32D06G200C2	Kit PDM32, Display 6", 2 m cable length, 200 cm GPS Module cable length
XC1PDM32D06G400C2	Kit PDM32, Display 6", 2 m cable length, 400 cm GPS Module cable length
XC1PDM32D06R200C2	Kit PDM32, Display 6", 2 m cable length, 200 cm GPS Module «Roof» version cable length
XC1PDM32D06R400C2	Kit PDM32, Display 6", 2 m cable length, 400 cm GPS Module «Roof» version cable length
XC1PDM32D10G050C2	Kit PDM32, Display 10", 2 m cable length, 50 cm GPS Module cable length
XC1PDM32D10G130C2	Kit PDM32, Display 10", 2 m cable length, 130 cm GPS Module cable length
XC1PDM32D10G200C2	Kit PDM32, Display 10", 2 m cable length, 200 cm GPS Module cable length
XC1PDM32D10G400C2	Kit PDM32, Display 10", 2 m cable length, 400 cm GPS Module cable length
XC1PDM32D10R200C2	Kit PDM32, Display 10", 2 m cable length, 200 cm GPS Module «Roof» version cable length
XC1PDM32D10R400C2	Kit PDM32, Display 10", 2 m cable length, 400 cm GPS Module «Roof» version cable length
XC1D06000	Display 6"
XC1D10000	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	CAN0 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	CAN0 Low	29	CAN2 Low
12 ●	High power output 2	30	CAN1 High/RS232TX
13 ●	High power output 1	31	CAN1 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