



Welcome!

We will be starting in just a few moments.
Until then, fine tune your audio and video settings



Webinar Series



The New EPM08/32

Add Power Outputs to Your AiM Device



Host:
Roger Caddell
National Training Manager
AiM Sports

Guest:
Robbie Yeoman
Chief Technology Officer
AiM Sports



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Tuesday September 30th, 2025

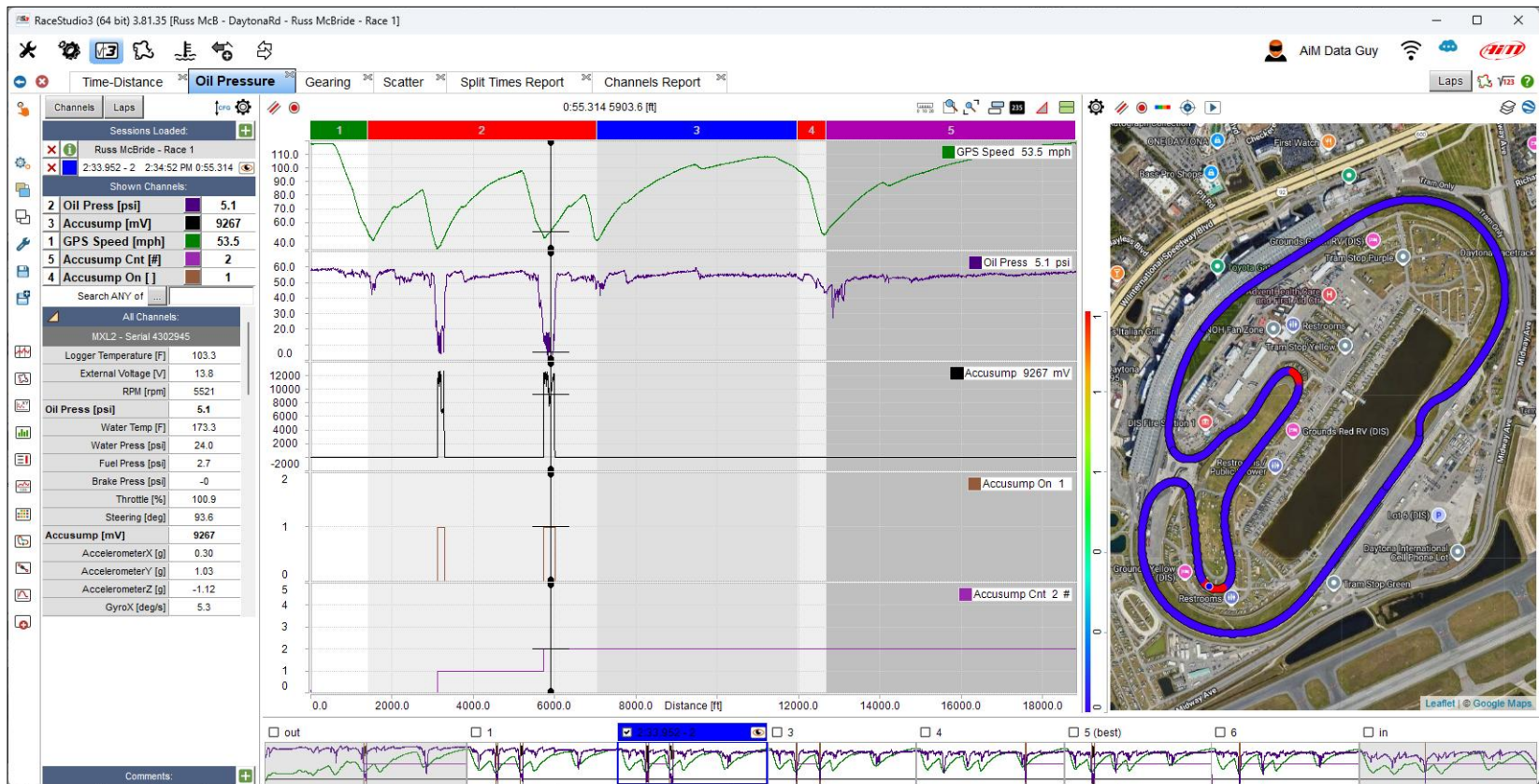
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Next AiM Sports Webinar

Tuesday, October 14th, 2025 – 6pm Pac / 9pm East



Anatomy of an AiM Support Call



Next Webinar

2nd & Last Tuesday of Each Month

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If You Have Questions

The New EPM08/32

Add Power Outputs to Your Device



EPM08/EPM32
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We Have Answers!
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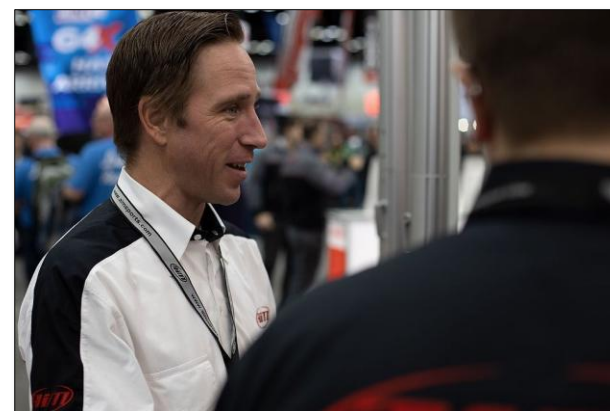


Robbie Yeoman

Chief Technology Officer
ryeoman@aimsports.com



- AiM Sports Technician Since 2008
- Currently AiM Sports 'Chief Technology Officer'
- Longtime Passion for Racing and Electronics
- Creator of Custom Wiring for Data Systems and Chassis
- Many-time Webinar Co-Host



Robbie Yeoman

Chief Technology Officer



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AiM Power Distribution

- History of the AiM Sports PDM and EPM
- What is the Difference Between a PDM and EPM?
- EPM08 vs EPM32
- What Products in the AiM Lineup will Support the EPM08/32?



MXS 1.2/1.3



MXP/MXP 1.3



MXG 1.2/1.3



MXT 1.3



SW4



EPM08

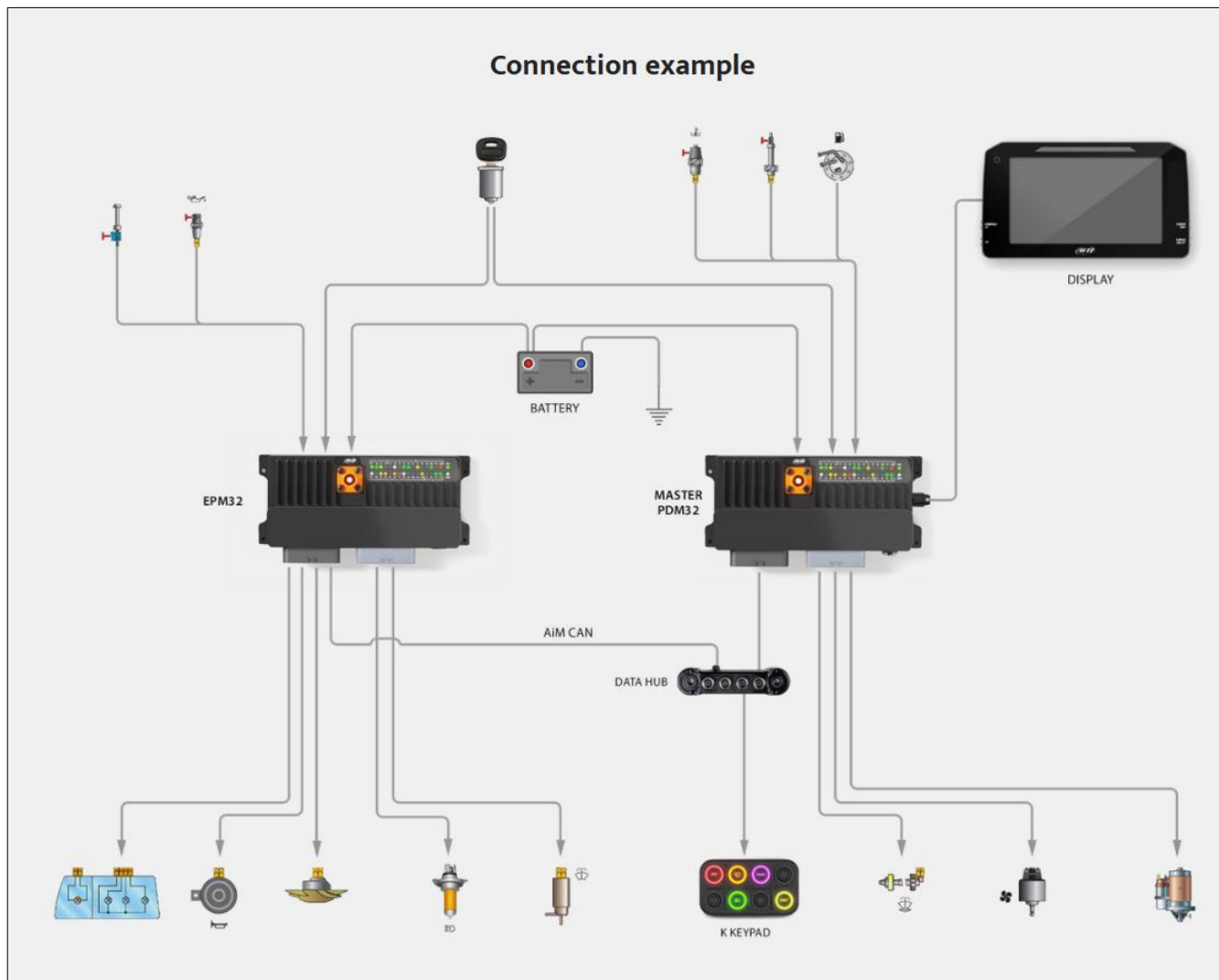


EPM32

The New EPM08/32

AiM Power Distribution

PDM/EPM Connection Example



The New EPM08/32

PDM/EPM Connection Example



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EPM08/32 Specifications



	EPM08	EPM32
LEDs	8 RGB LEDs + 1 EPM ON + 1 EPM STS (Status)	32 RGB LEDs + 1 EPM ON + 1 EPM STS (Status)
Analog/digital inputs	6 fully configurable analog inputs (0-5V; 0-12V) recorded at max 500 Hz each Digital inputs pullup/pulldown	12 inputs (8 configurable as analogic or digital, 4 digital only) Up to 8 analogic inputs recorded at max 500 Hz each Digital inputs pullup/pulldown
Power outputs	1 with series diode rated up to 20 A (high side) 1 rated up to 25 A (high side) 6 rated up to 15 A (high side) Protected for: over voltage, under voltage, short circuit, over current, over temperature All outputs have internal freewheeling diode Total max current: 100 A	1 with series diode + 3 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) Protected for: over voltage, under voltage, short circuit, over current, over temperature Total max current: 120 A
Connectors	1 AMP connector + 1 Amphenol Surlok connector	2 AMP connectors + 1 Amphenol Surlok connector
Body	Anodized Aluminum	
Dimensions	161x100.6x50.6 mm	234.4 x 95.1 x 49.0 mm
Weight	370 g	740 g

The New EPM08/32

EPM08/32 Specifications

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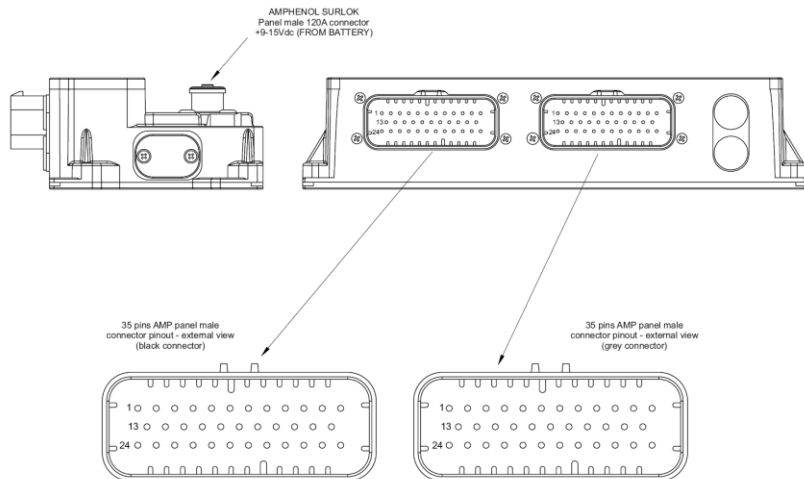


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EPM32 and PDM32 Pinouts



EPM32 Pinouts

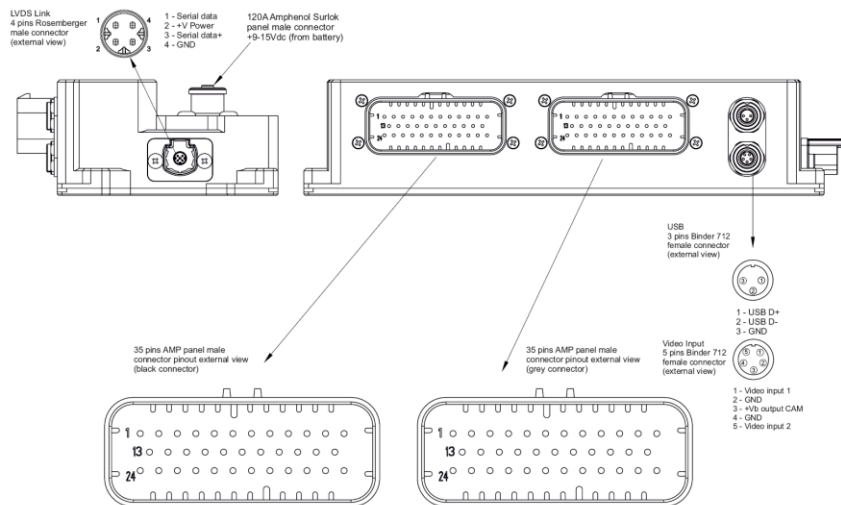


PIN	DESCRIPTION	PIN	DESCRIPTION
1	High power output 1	19	Low power output 6
2	Mid power output 1	20	Low power output 7
3	Mid power output 2	21	Low power output 8
4	Mid power output 3	22	CAN AIM High
5	Mid power output 4	23	High power output 2
6	Mid power output 5	24	High power output 3
7	Mid power output 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	RESERVED
11	CAN AIM Low	29	RESERVED
12	High power output 2	30	RESERVED
13	High power output 1	31	RESERVED
14	Low power output 1	32	RESERVED
15	Low power output 2	33	RESERVED
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		

● High Power Out 1 has internal serie diode

PIN	DESCRIPTION	PIN	DESCRIPTION
1	Half bridge power output 1	19	RESERVED
2	Half bridge power output 1	20	RESERVED
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	High power output 2	30	Channel input 5
13	P GND	31	Channel input 6
14	P GND	32	Channel input 7
15	RESERVED	33	Channel input 8
16	+5V Analog Vreference	34	Half bridge power output 4
17	+Vb out	35	Half bridge power output 4
18	GND		

PDM32 Pinouts



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		

● High Power Out 1 has internal serie diode

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		

The New EPM08/32

EPM32 and PDM32 Pinouts

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EPM's and Race Studio 3



EPMs & RaceStudio 3

From AiM RaceStudio 3 **version 3.81.00** onwards, the EPMs are available as expansions within the system configuration.

The configuration of all the devices mentioned above have now the same user interface and capability for managing:

- Alarms
- Icons
- Commands
- Status variables

Additionally, the online view introduces several key improvements:

- All your settings (unit of measure, forced values, etc.) are now retained even after disconnecting or resetting the device
- Channels with associated labels (such as ON/OFF) can be now forced by simply changing their numeric value
- Power outputs - along with the associated channels, current, status and activation - are now conveniently grouped in a single, easy-to-manage box.



The New EPM08/32

EPM's and Race Studio 3



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What's In The Box – EPM32



Kit 1 EPM32

Description	Part number	The kit contains
Kit EPM32 with CAN cable length 200 cm	XEPM32200	EPM32 Module 
		CAN cable for EPM32 200 cm 
		Heavy Duty connector Amphenol 
		35 pins AMP black connector shell 
		35 pins AMP grey connector shell 
		70 gold plated pins for AMP 

The New EPM08/32

What's In The Box – EPM32



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Additional Accessories



Power Output Connector Details

Hardware	Connectors	Pins	Backshell	Output Crimp Tool
PDM32	AmpSeal: 776164-1 AmpSeal: 776164-4	Gold: 770854-3	2389807-1 2 per connector	Die set: 58529-2 TE Frame: 354940-1 Combo Frame and Die: 58529-1
PDM08	AmpSeal: 776164-1	Gold: 770854-3	2389807-1 2 per connector	Die set: 58529-2 TE Frame: 354940-1 Combo Frame and Die: 58529-1
EPM32	AmpSeal: 776164-1 AmpSeal: 776164-4	Gold: 770854-3	2389807-1 2 per connector	Die set: 58529-2 TE Frame: 354940-1 Combo Frame and Die: 58529-1
EPM08	AmpSeal: 776164-1	Gold: 770854-3	2389807-1 2 per connector	Die set: 58529-2 TE Frame: 354940-1 Combo Frame and Die: 58529-1

**** Gold contacts, 770854-3, are the preferred contact for all connections on the PDM hardware. It is not advisable to use the Nickel: 770854-3 alternative.****

Power Input Connector Details

Hardware	Connector	Crimp tool
PDM32	Amphenol Surlok: SLPPA25BSO	Temco: TH0006
PDM08	Amphenol Surlok: SLPPA25BSO	Temco: TH0006
EPM32	Amphenol Surlok: SLPPA25BSO	Temco: TH0006
EPM08	Amphenol Surlok: SLPPA25BSO	Temco: TH0006

The New EPM08/32

Additional Accessories

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Configuration – Live Demo



RaceStudio3 (64 bit) 3.81.35

AIM Data Guy

All Configurations **SW4**

Save Save As Close Transmit

Total channels: 193 37%
Total frequency: 8933 178%

Channels Buttons ECU Stream CAN2 Stream **CAN Expansions** Math Channels Status Variables Parameters Shift Lights and Alarms Commands Icons Manager Display SmartyCam Stream CAN Output

New Expansion

All **0E08**

Expansion Name (6 Characters Max.)
0E08

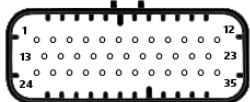
Expansion Serial Number (S.N.)
0

Get Expansion Serial Number

Close

Channels Status Variables **Power Outputs**

Black Connector (35 Pin Male)



Available Channels List

☐	Power Output	Description	Pin	Max Load
☐	1	E08 PO1	Power Out 1	B 1; 13; 25.0 A
☐	2	E08 PO2	Power Out 2	B 2; 15.0 A
☐	3	E08 PO3	Power Out 3	B 4; 15.0 A
☐	4	E08 PO4	Power Out 4	B 6; 15.0 A
☐	5	E08 PO5	Power Out 5	B 7; 15.0 A
☐	6	E08 PO6	Power Out 6	B 9; 15.0 A
☐	7	E08 PO7	Power Out 7	B 11; 15.0 A
☐	8	E08 PO8	Power Out 8	B 12; 23; 20.0 A

The New EPM08/32

Configuration – Live Demo



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'Live Measures' with EPM/PDM



RaceStudio3 (64 bit) 3.80.14 - build Wednesday, July 2, 2023 10:56 PM

AIM Devs/Cards

Utilities

Connected Devices

- PDM32 ID 7800233
- SD SmartyCam 3 Sport id 1400104 [F:\]

PDM32 ID 7800233 (USB)

Live Measures | Data Download | Properties | Settings | Tracks | Predictive Reference Lapi | Counters | Logo | Firmware | Device Explorer | Demo

Search ANY of

Ch02	9 mV	Ch03	19 mV	Ch04	6 mV	Ch05	10 mV
Ch06	11 mV	Ch07	17 mV	Ch08	17 mV	External Voltage	13.0 V
Luminosity	0.27 %	MagnetX	0.4 mG	MagnetY	0.1 mG	MagnetZ	-0.2 mG

ECU channels

BRAKE POS ECU 3	---	FUEL LVL ECU 3	---	THRT POS ECU 3	---	RPM ECU 3	0 rpm
SPD ECU 3	---	OIL TMP ECU 3	---	WTR TMP ECU 3	---	GEAR ECU 3	---

Calculated channels

BitBlueX15	0 #	BitGreenX15	0 #	BitRedX15	0 #	SafeIgnition	1 #
POTotCrntMain	0.0 A						

GPS channels

emGPS - Altitude	0.00 m	emGPS - Heading	0.0 deg	emGPS - Latitude	90.000000 N deg	emGPS - Longitu...	0.000000 E deg
emGPS - Pos Acc...	0.00 m	emGPS - Sat Num...	0	emGPS - Spd Acc...	0.0 km/h	emGPS - Speed	0 km/h
emptyGPS	No GPS						

Lap channels

Lap - Lap Number	0	Lap - Run Number	0	Lap - Split Number	0	Lap - Split Time	0.00.000
Lap Time	0.00.000						

Digital Status channels

StatusCh09	ON	StatusCh10	ON	StatusCh11	ON	StatusCh12	ON
------------	----	------------	----	------------	----	------------	----

K15 - Serial 4400116

Calculated channels

OK15 Brightness	80 %						
-----------------	------	--	--	--	--	--	--

Digital Status channels

OK15 Btn 01	S0	OK15 Btn 02	OFF	OK15 Btn 03	OFF	OK15 Btn 04	OFF
OK15 Btn 05	OFF	OK15 Btn 06	OFF	OK15 Btn 07	OFF	OK15 Btn 08	OFF
OK15 Btn 09	OFF	OK15 Btn 10	OFF	OK15 Btn 11	OFF	OK15 Btn 12	OFF
OK15 Btn 13	OFF	OK15 Btn 14	OFF	OK15 Btn 15	OFF		

Power Outputs

LowPO1	OFF	LowPO12	OFF
--------	-----	---------	-----

LowPO1 OFF

0 rpm

0.0 [A]

The New EPM08/32

'Live Measures' with EPM/PDM

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EPM and PDM Links



- EPM08/EPM32 Main Page:
<https://www.aimsports.com/us/products/epm32-epm08/index.htm>
- EPM08 Technical Sheet:
https://www.aimsports.com/download/technical-sheets/aim_epm08_tech_sheet.pdf
- EPM32 Technical Sheet:
https://www.aimsports.com/download/technical-sheets/aim_epm32_tech_sheet.pdf
- EPM08/EPM32 Documentation Page:
<https://www.aimsports.com/us/products/epm32-epm08/documentation.htm>
- Introducing The AiM Sports PDM - Live Webinar with Fabrizio Rizzi - 9/22/2020:
<https://www.youtube.com/watch?v=8MDb4wXaR8M>
- AiM Sports PDM Update #2 - Live Webinar with Fabrizio Rizzi - 10/15/2020:
<https://www.youtube.com/watch?v=Z8Hq4LaLJ2k>
- An AiM PDM User's Experience Live Webinar with Todd Buras - 2/15/2022:
<https://www.youtube.com/watch?v=lvDf2MKBCno>
- I Have an AiM PDM, Now What? - Live Webinar with Robbie Yeoman - 8/30/2022:
<https://www.youtube.com/watch?v=sResCgHIDYI>



LearnFast™ E-Training Videos



Currently **292** Videos and Growing

YouTube www.youtube.com/aimdata



- All New 2020 - 25 Live Webinar Videos
 - Software Updates with RaceStudio 3
 - Pre-Calculated Gear Position Function
 - Configuring WiFi Communication
 - Customizing AiM Device Logos
 - RaceStudio 3 Basic Configuration - Part 1
 - RaceStudio 3 Basic Configuration - Part 2
 - **I Have Downloaded my Data, Now What - Part 1*
 - **I Have Downloaded my Data, Now What - Part 2*
 - GPS Lap Insert
 - Selection Criteria
 - Data Views
 - Sensor Calibration
 - Measure Units
 - Conditional Alarms
 - Sort Channels
 - Gear Position
 - Test Properties
 - Firmware Update
 - Per Lap Color
 - Solo Configuration
 - Export Tests
 - Transmit Tracks
 - Channel Reports
 - Gps Manager Overview
 - Setting Time
 - New GPS Track
 - Track Mapping
 - Webinars
- * *Most Popular and Recommended*

Additional Materials

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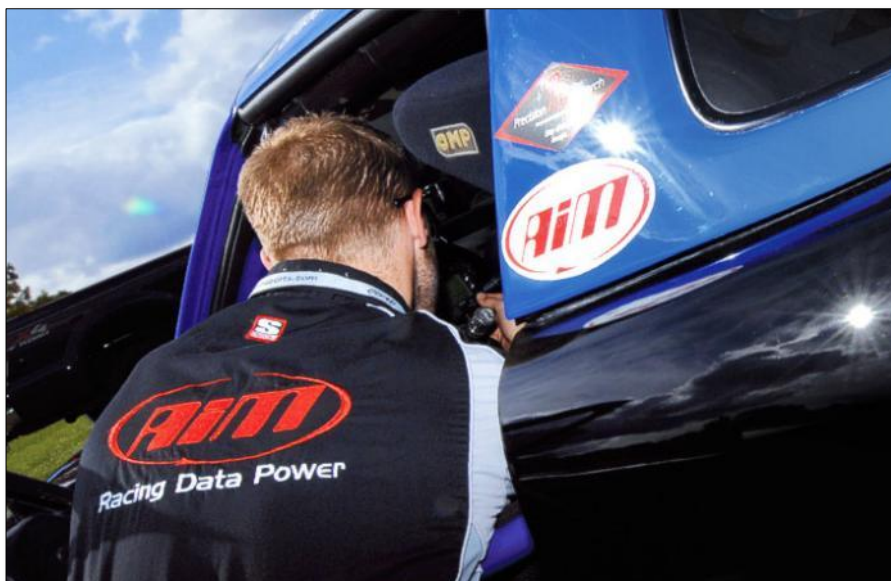
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Customer Support



AiM Sports Technical Support Staff Regularly
Attend Races and Other Events

Look For Us At An Event Near You
Or Call Us At **800.718.9090**



Customer Support

At An Event Near You!

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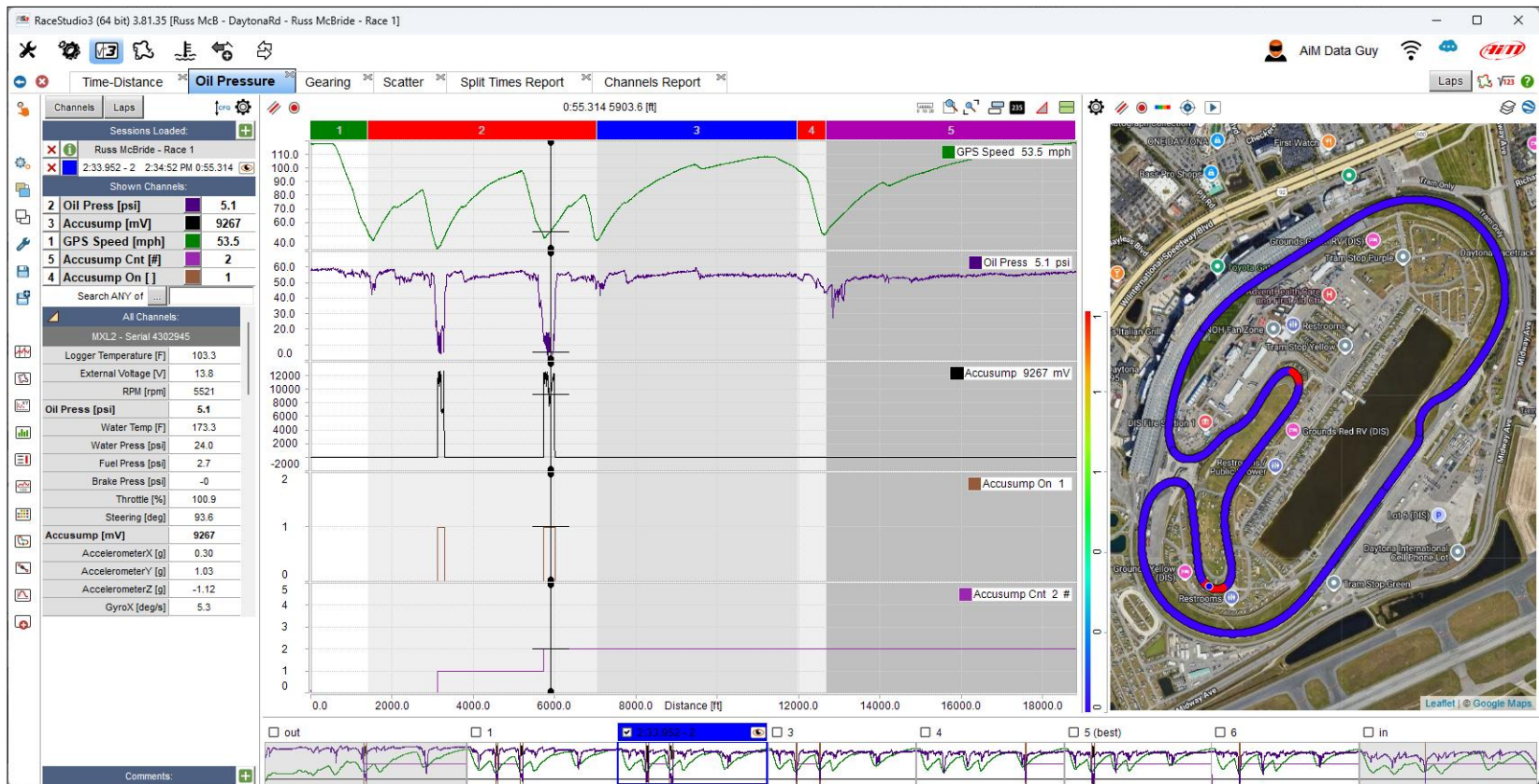
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