

Technical Documentation

AIM SW4 320 | Dash Logger



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Description AiM SW4 320

The **AiM SW 4 320** is a steering wheel with a freely configurable 4.3" TFT display and integrated data recording. It has four configurable RGB alarm LEDs, eight configurable RGB switch lamps, each free configurable. The can communicate with over 2000 ECUs **AiM SW4 320** from all market-leading ECU manufacturers via the two CAN connections. It also has ten pushbuttons and three rotary switches, each freely configurable and with RGB backlighting.

The sturdy aluminium housing meets the requirements of protection class IP65, making the **Steering Wheel 4** suitable not only for touring cars but also for open vehicles. The four display buttons can be used to customise the settings of the **AiM SW4** and to switch between the configured display pages.

The **AiM SW4** is available in the sizes 270 mm, 280 mm, 320 mm and 350 mm. Switching and/or clutch rockers can also be connected. The handles can be changed at any time.

Special features AiM SW4 320

- 8 RGB Shift lights
- 4 RGB Alarm lights
- 10 push buttons with RGB backlight
- 3 rotary switch with RGB backlight
- Lap times with up to 5 split times
- 5" TFT Display, 800 x 480
- 4 GB Storage
- 3 CAN interfaces
- ECU Interface
- Removable handle bars
- Shift and clutch paddles

Technical Data AiM SW4 320

Display:	5" TFT, 800x480
Helligkeitssensor:	Yes
Alarm-LEDs:	4x RGB, free configurable
Shift lights:	8x RGB, free configurable
CAN-connection:	3
ECU-connection:	CAN
Connector:	Deutsch 22-Pin
Push button:	10, RGB backlight
Rotary switch:	3, RGB backlight
Data transfer:	USB
Storage:	4 GB internal
Dimensions:	320x183.5x42.6 mm
Weight:	2600 gr
Protection class:	IP65
Power consumption:	~500mA

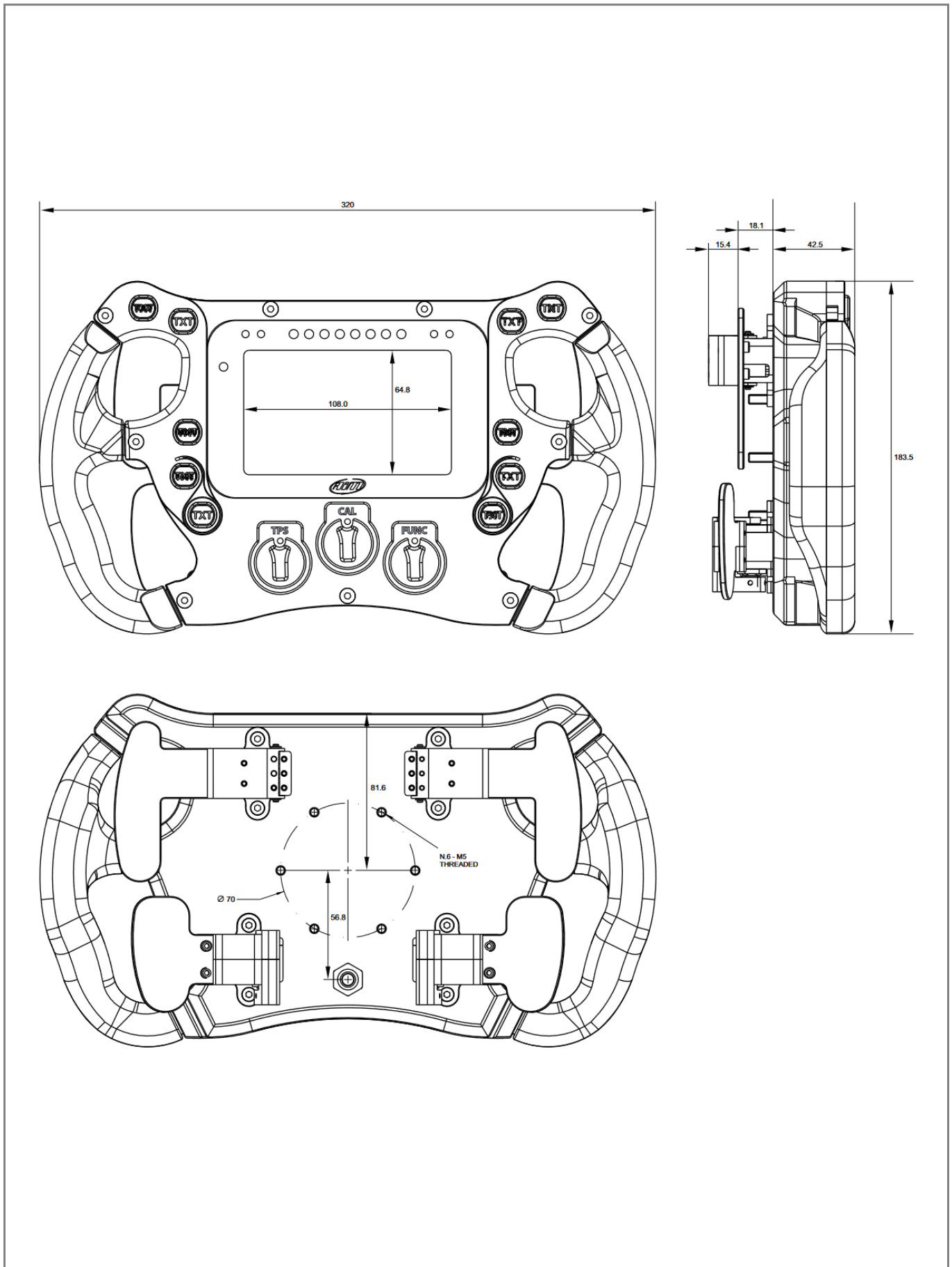
Overview of SW4 Dash Logger



	SW4 350	SW 320	SW4 280	SW4 270
Supply				
Power supply	9 - 15 VDC	9 - 15 VDC	9 - 15 VDC	9 - 15 VDC
Power consumption mA [max.]	500	500	500	500
Inputs				
Analogue [optional]	- [40]	- [40]	- [40]	- [40]
Analogue 0 - 5 V	-	-	-	-
Analogue 0 - 12 V	-	-	-	-
ECU channels [max.]	120	120	120	120
Digital [optional]	- [24]	- [24]	- [24]	- [24]
Thermocouple [optional]	- [40]	- [40]	- [40]	- [40]
Speed	-	-	-	-
Lap time GPS	x	x	x	x
Lap time optisch	-	-	-	-
Lap time magnetic	-	-	-	-
Rear camera	-	-	-	-
External keyboard	-	-	-	-
RPM over coil	x	x	x	x
Outputs				
Signal / Digital	-	-	-	-
CAN	2	2	2	2
Reference voltage	5V	5V	5V	5V
Communication				
CAN Interface	3	3	3	3
K-Line	-	-	-	-
RS232	-	-	-	-
USB	x	x	x	x
WiFi	-	-	-	-
Storage				
Storage in GB [optional]	4 [32] GB	4 [32] GB	4 [32] GB	4 [32] GB
Total sample rate	8950	8950	8950	8950
Sample rate per channel	-	-	-	-
Other				
Acceleration sensor	-	-	-	-
Gyroscope	-	-	-	-
Connector	DEUTSCH 22-p	DEUTSCH 22-p	DEUTSCH 22-p	DEUTSCH 22-p
MOT	-	-	-	-
Display	800 x 480 5" TFT	800 x 480 5" TFT	800 x 480 4.3" TFT	800 x 480 4.3" TFT
Alarm lights	4 RGB	4 RGB	4 RGB	4 RGB
Shift lights	8 RGB	8 RGB	8 RGB	8 RGB
Calculated channels	x	x	x	x
Light sensor	x	x	x	x
Measurement	350 x 183.5 x 42.5 mm	320 x 183.5 x 42.5 mm	280 x 183.5 x 42.6 mm	270 x 183.5 x 42.6 mm
Weight	2600 gr	2600 gr	2400 gr	2400 gr
Protection class	IP65	IP65	IP65	IP65
Expansion				
GPS	o	o	o	o
Lambda	o	o	o	o
Displays	o	o	o	o
SmartyCam	o	o	o	o
TC-Hub	o	o	o	o
Channel Expansion / ACC	o	o	o	o
Shift Light Modul	o	o	o	o
Memory Module	o	o	o	o
Remote Button Interface	-	-	-	-
RIO02	o	o	o	o
Strada Logger	-	-	-	-
MemoryKey	-	-	-	-

x = Serienmäßig | o = optional | - = nicht möglich | Zahl = Anzahl

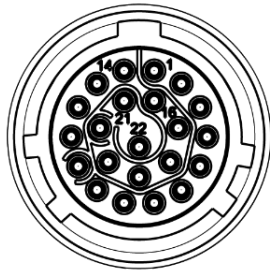
Measurement AiM SW4 320



Pinout AiM SW4 320

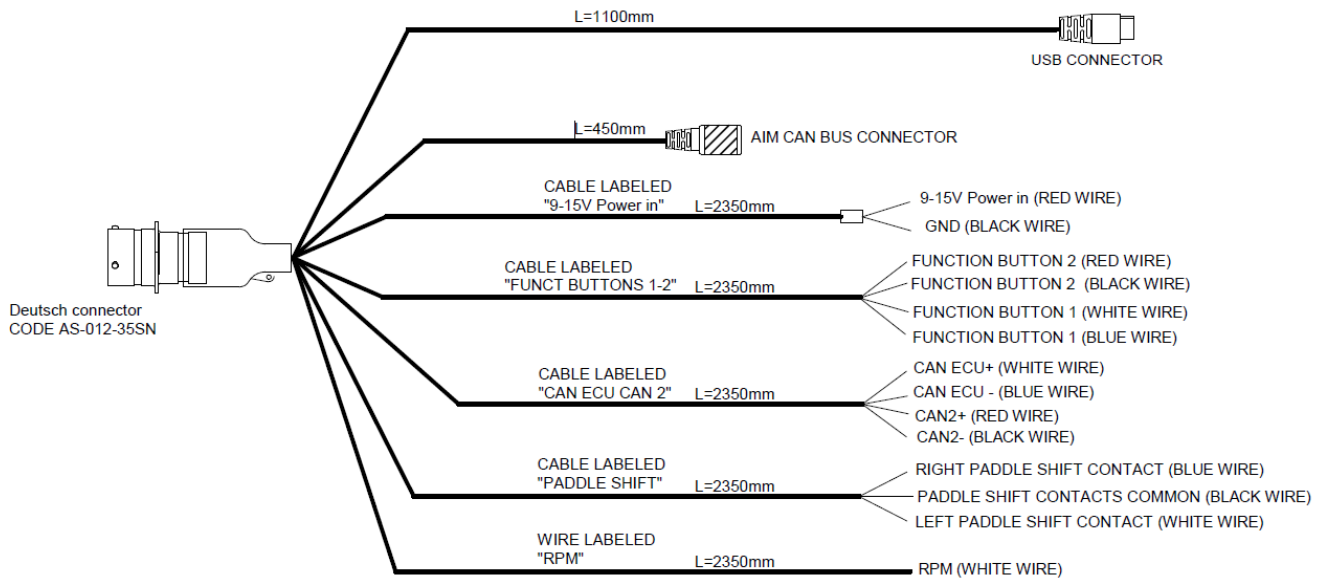
DEUTSCH 22 pin

Pin	Function	Pin	Function
1	9 - 15 V	12	USB D-
2	ECU CAN1 +	13	EXP CAN +
3	ECU CAN1 -	14	EXP Ground
4	Paddleshift left	15	EXP CAN -
5	Paddleshift right	16	RPM
6	Paddleshift COM	17	Not used
7	Function Button 2	18	Function Button 2
8	ECU CAN2 +	19	Ground
9	ECU CAN2 -	20	Function Button 1
10	Function Button 1	21	EXP +Vbat
11	USB D+	22	EXP +Vbat out



Wiring harness AiM SW4 320

Wiring harness SW4, 22 pin, Standard



AS 22 pin	Cable colour	Connector Pin	Cable [mm ²]	Cable length [mm]	Channel	Labelling
1	Red	-	0,50	2350	9 - 15 V	9 - 15 V Power In
14	Black	-	0,50	2350	Ground	GND
2	White	-	0,35	2350	ECU CAN1 +	CAN ECU+
3	Blue	-	0,35	2350	ECU CAN1 -	CAN ECU-
8	Red	-	0,35	2350	ECU CAN2 +	CAN2+
9	Black	-	0,35	2350	ECU CAN2 -	CAN2-
4	White	-	0,35	2350	Paddleshift left	LEFT Paddle shift
5	Blue	-	0,35	2350	Paddleshift right	RIGHT Paddle shift
6	Black	-	0,35	2350	Paddleshift COM	Paddle shift COMMON
7	Red	-	0,35	2350	Function Button 2	FUNCTION BUTTON 2
10	White	-	0,35	2350	Function Button 1	FUNCTION BUTTON 1
18	Black	-	0,35	2350	Function Button 2	FUNCTION BUTTON 2
20	Blue	-	0,35	2350	Function Button 1	FUNCTION BUTTON 1
11	White	1 (719 4p)	0,35	1100	USB D+	USB
19	Black	2 (719 4p)	0,35	1100	USB Ground	
12	Blue	3 (719 4p)	0,35	1100	USB D-	
-	-	4 (719 4p)	-	-	-	
13	White	1 (711 5p)	0,25	450	EXP CAN+	EXP
19	Black	2 (711 5p)	0,25	450	EXP Ground	
21	Red	3 (711 5p)	0,25	450	EXP +Vbat	
15	Blue	4 (711 5p)	0,25	450	EXP CAN-	
22	Orange	5 (711 5p)	0,25	450	EXP +Vbat out	
16	White	-	0,35	2350	RPM	RPM

Scope of supply AiM SW4 320

ASW41-32KB SW4 320 mm, Wiring harness



Store

ASW41-32PSGKB SW4 320 mm, PS Gear, Wiring harness



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ASW41-32PSGKKB SW4 320 mm, PS Gear, PS Clutch, Wiring harness



Store

Accessory AiM SW4 320

CKB-SW41201 Wiring harness SW4, 22 pin, Standard



Store

CAK-USB201 Connection cable Mini-USB, 719m-4p



Store

CDU-MINI01 USB-Data transference cable Mini-USB



Store

CST-ASFK2202 AS Bushing, 22 pin, AS 012-35SN



Store

CZA-SW4105 Buttons w. icons, SW4, Standard



Store

CZA-SW4104 Handle grips SW4 right/left



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Accessory AiM SW4 320

CZA-SW4103 PaddleClutch SW4



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CZA-SW4102 PaddleShift SW4, 320/350 mm



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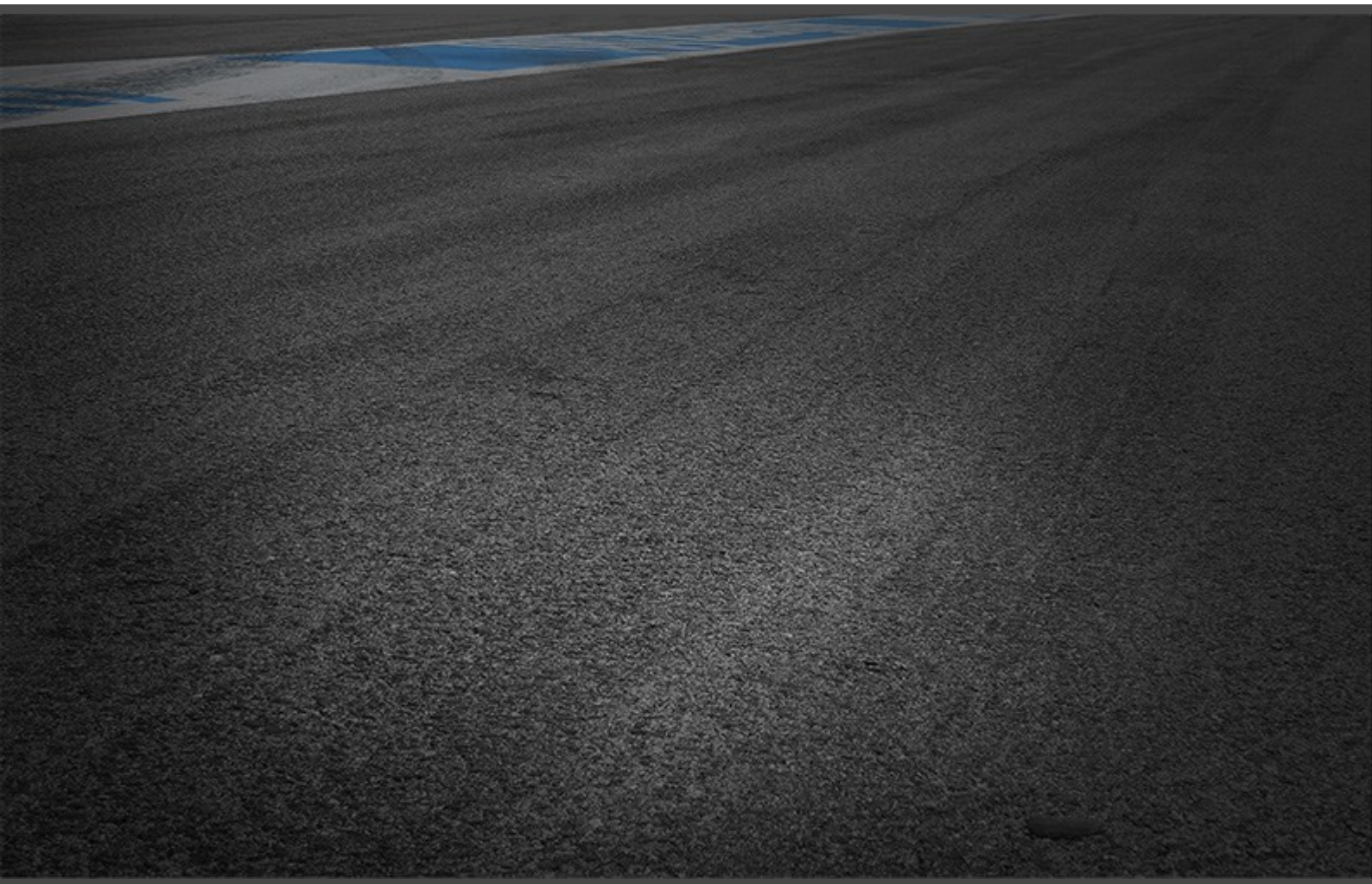
CZA-SW4106 Protection cover Paddle, SW4



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Release History

Release	Date	Author	Comments
100	04.11.2023	TME	First release



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