

Technical Documentation

AIM MyChron Expansion



TD

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Description AiM MyChron Expansion

The **AiM MyChron Expansion** connects up to 4 further sensors with the MyChron5S and MyChron5S 2T, you can connect the Data Hub and it has got the connection for the vehicle battery to supply the complete system with power, respectively to monitor the battery voltage via MC5.

There are three analogue inputs for outlet sensor, potentiometer, pressure sensors, temperature sensors PT100 or IR-tire temperature sensor, and one configurable input, which either can be used for a speed sensor or a normal analogue sensor. Thermocouples (exhaust gas temperature) can't be connected, for them you still need the connections on the MyChron 5 respectively Mychron 5 2T.

Special Features AiM MyChron Expansion

- AiM CAN Bus network (EXP)
- 4 Analog- Digital inputs
- Sampling rate up to 20 Hz
- External 12V connection
- 1x speed input
- 1x EXP input
- Pnly for MyChron
- Status LED

Technical Data AiM MyChron Expansion

CAN-connections:	1
Connector:	Binder 711
Analog channels:	up to 4
Sampling rate:	20 Hz
Dimensions:	127 x 24 x 33 mm
Weight:	194 gr
Protection class:	IP65
Power consumption:	~50mA

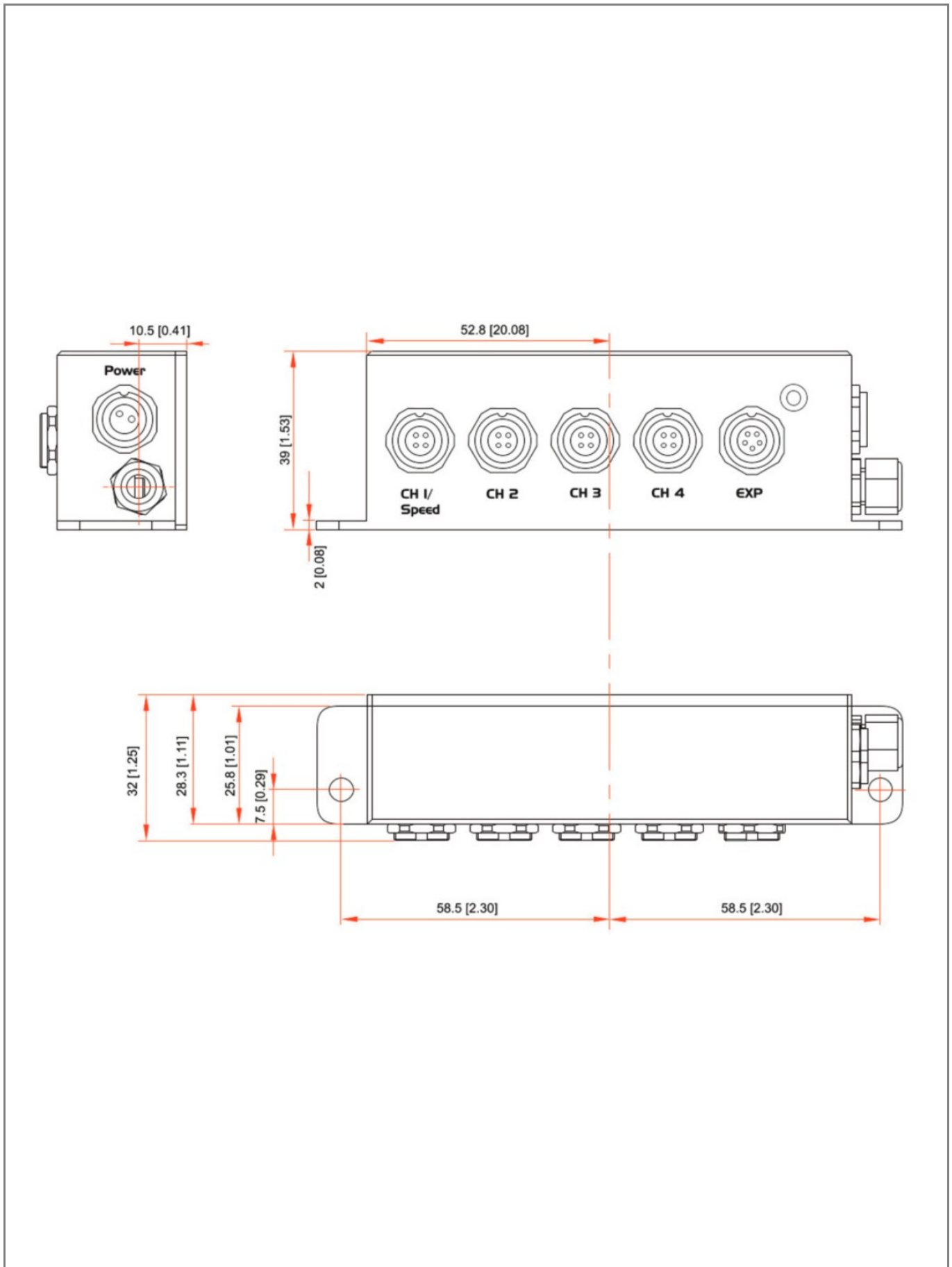
Overview of MyChron Expansions



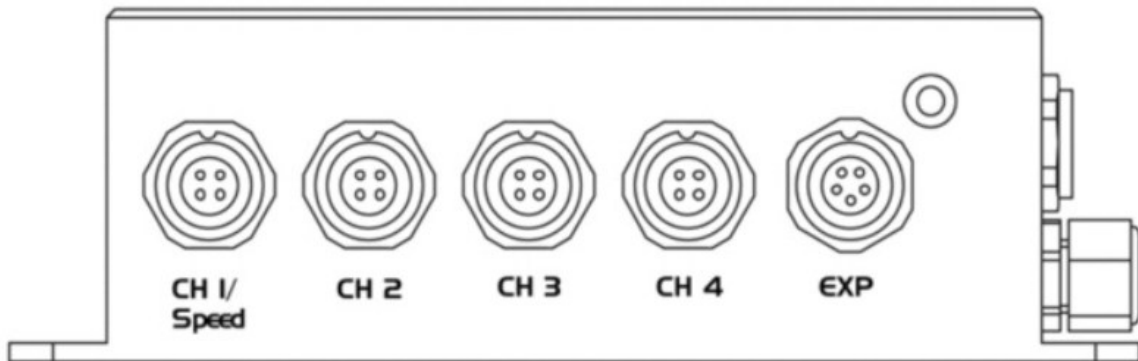
	MyChron Expansion	IT Temp Controller
Supply		
Power supply	9 - 15 VDC	9 - 15 VDC
Power consumption mA [max.]	30	30
Inputs		
Analogue [optional]	4	4
Analogue 0 - 5 V	4	4
Analogue 0 - 12 V	-	-
ECU Channels [max.]	-	-
Digital [optional]	2	-
Thermocouple [optional]	-	-
Speed	2	-
Lap time GPS	-	-
Lap time optical	-	-
Lap time magnetic	-	-
Rear camera	-	-
External keyboard	-	-
RPM over coil	-	-
Outputs		
Signal	-	-
CAN	-	-
Reference voltage	5V	5V
Communication		
CAN Interface	1	1
K-Line	-	-
RS232	-	-
USB	-	-
WiFi	-	-
Storage		
Storage in GB [optional]	-	-
Total sample rate	-	-
Sample rate per channel	20 Hz	20 Hz
Other		
Acceleration sensor	-	-
Gyroscope	-	-
Connector	Binder 711	Binder 711
MOT	-	-
Display	-	-
Alarm lights	-	-
Shift lights	-	-
Calculated channels	-	-
Light sensor	-	-
Measurements	127 x 24 x 33 mm	127,6x32x39mm
Weight	194 gr	194 gr
Protection class	IP65	IP65

x = standard | o = optional | - = not possible | Digit = amount

Measurement AiM MyChron Expansion

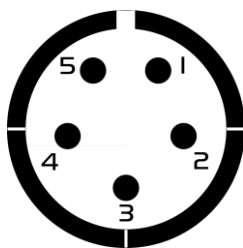


Pinout AiM MyChron Expansion



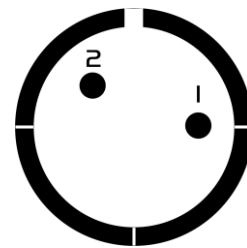
CAN AiM | Binder 711 5 pin

Pin	Function	Pin	Function
1	EXP CAN +	4	EXP CAN -
2	EXP Ground	5	EXP +Vbat out
3	EXP +Vbat		



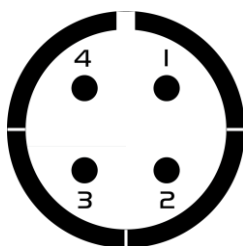
Power | Binder 711 2 pin

Pin	Function	Pin	Function
1	+Vbat	2	Ground



CH 1 – CH 4 | Binder 711 4 pin

Pin	Function	Pin	Function
1	Analog 1 – 4	3	+Vbat
2	Ground	4	+Vref



Scope of supply AiM MyChron Expansion

BMEX11-oZ

MyChron expansion without accessories



Store

BMEX11-S

MyChron expansion with speed sensor



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Accessory AiM MyChron Expansion

CGP-M8101 Speed sensor passive M8, 711



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CGP-VAK101 Speed sensor passive Kart, front wheel, 711



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CAK-MEX101 Connection cable MyChron Exp, TR, 150 cm, 711m-4p



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CTR-M1020 Temperature sensor TR, M10x1, 30 cm, 719-4, MyChron



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CVK-150103 Extension 150 cm, 711m - 711f, 5 pin



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BDAHU11-4101 Data Hub, 4-port, 150 cm, 711



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Accessory AiM MyChron Expansion

CAS-AULS101 Power valve sensor AiM, 711



Store

CBK-LWKK101 Steering angle kit Kart, 711



Store

CBK-PEPK101 Pedal potentiometer kit AiM, 711



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CSV-EV4S101 12V connection cable evo4s, MCE11, 150 cm, 711m-2p, open wire



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CVK-150104 Extension 150 cm, 711m - 719f, 4 pin



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CTZ-M1001 Adapter WTF M10x1



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Accessory AiM MyChron Expansion

CZG-MR3001 Magnetic transmitter ring 30 mm



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CZG-MR4001 Magnetic transmitter ring 40 mm



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CZG-MR5001 Magnetic transmitter ring 50 mm



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CHS-GSK01 Bracket for speed sensor Kart



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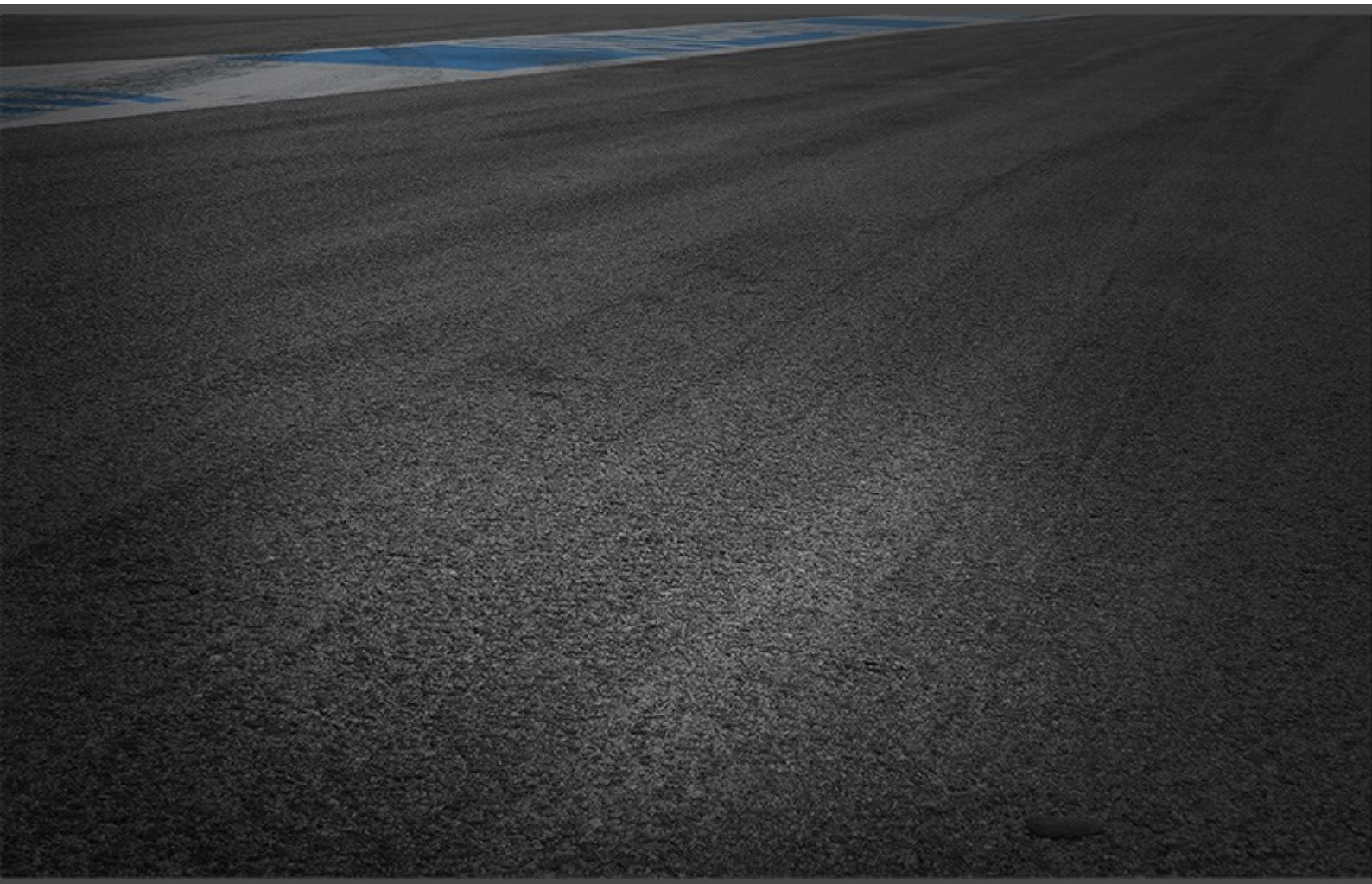
CHG-M4EX01 Bracket for eBox



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Release History

Release	Date	Author	Comments
100	28.02.2024	TME	First release



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