

# 2026 PRODUCT CATALOGUE



**TREMONDI**  
MOTORSPORT

High quality motorsport parts  
made to support your success



25 years of  
**EXPERIENCE**  
in production and development of the premium  
automotive and motorsport parts

own research and  
**DEVELOPMENT**

to bring our customers always something extra with  
our custom made parts



top notch  
**CUSTOMER SERVICE**  
to support you and your success

skilled personnel at  
**DESIGN AND MANUFACTURING**

to bring high level of technical experience and skills to  
your projects



# TREMONDI MOTORSPORT

GDU – Graphic display units

PDU – Power distribution units

SP – Switch panels

SWP – Steering wheel panels

LED lights and custom design of night faces

ECUs, Data Acquisition Systems and other electronic systems

Sensors and actuators

Design and manufacturing of wiring harnesses

Design, prototyping and production

3D printed and composite shell parts

## REFERENCES



**BOSCH**



# GDU

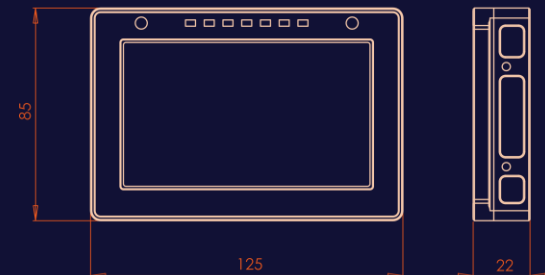
## GRAPHIC DISPLAY UNIT

Compact, lightweight, fast-response dashboard display with configurable pages. It can be used as a part of control and data acquisition system. Dashboard is compatible with many control and data acquisition systems commonly used in racing cars.

Dashboard is delivered with firmware and PC-tool for individual set-up of graphics of the pages and many functionalities displayed on the pages.



Technical specification	GDU-170	GDU-172	GDU-174
<b>Inputs</b>			
1 Digital ENCP (programming enable)	X	X	X
2 Single ended analogue inputs		X	
2 Combined analogue /hall inputs		X	X
1 External reference supply		X	X
<b>Outputs</b>			
2 Low side outputs			X
1 CAN bus 2.0B	X	X	X
1 USB port			X
1 Graphic display 4.3" / 480 x 272 px	X	X	X
7 RPM meter LEDs	X	X	X
2 Alarm/multifunction LEDs	X	X	X
<b>Mechanicals</b>			
Overall dimensions without connector	125 x 85 x 22 mm		
Overall dimensions with connector	125 x 85 x 35 mm		
Overall weight (g)	~ 210	~ 220	~ 220
Enclosure	Machined aluminium		



# PDU

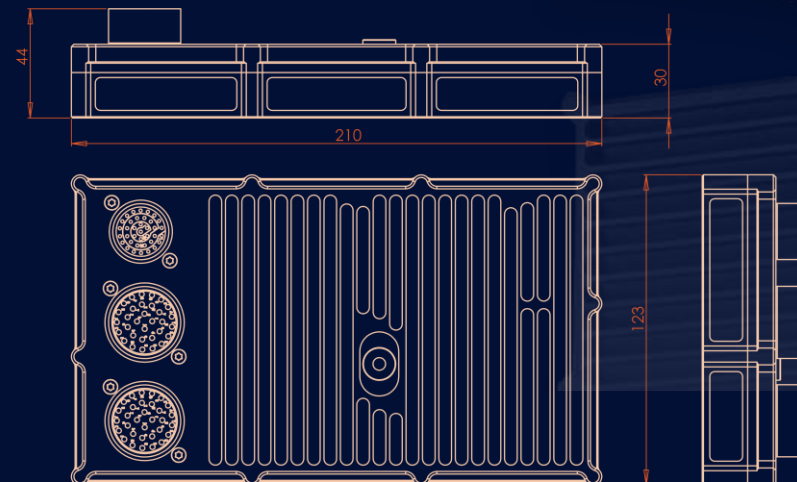
## POWER DISTRIBUTION UNIT

Highly reliable solid state power management system delivering current up to 200 A. PDU monitors real time current consumption of all 42 outputs. It can be used as slave or stand alone and together with Switch Panel significantly simplifies car wiring looms.

PDU is delivered with firmware and PC-tool for communication set-up and individual protection set-up of each channel.



Technical specification	PDU12-42.1
<b>Inputs, communication</b>	
1 Digital ENCP (programming enable)	X
16 Single ended analogue inputs	X
2 CAN bus	X
<b>Outputs</b>	
26 Outputs rated at 7.5 A	X
8 Outputs rated at 15 A	X
6 Outputs rated at 22.5 A	X
2 Wiper power outputs rated at 7.5 A	X
2 External Vref	X
Max operating voltage	18 V
Max low state voltage	0.7 V
Max current leakage	50 uA
<b>Mechanicals</b>	
Overall dimensions without connector (mm)	210 x 123 x 30
Overall dimensions with connector (mm)	210 x 123 x 44
Overall weight (g)	~ 970
IP rating	IP65
Enclosure	Machined aluminium



# SP

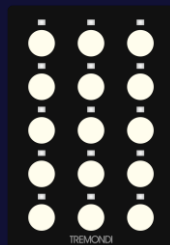
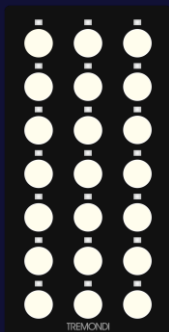
## SWITCH PANEL

Intelligent membrane switch panel with feedback by status LEDs can cooperate with various electronic units used in racing cars. Design and colour of all backlit keyboard buttons can be customised.

Together with other TREMONDI Motorsport products a reliable, powerful and competitive electronic system can be built.

Technical specification	SP-WRC2	SP-WRC2.1
1 Digital ENCP (programming enable)	X	X
1 CAN line	X	X
Keyboard buttons	15	21
Gauge LEDs	15	21
Overall dimensions without connector (mm)	138 x 93 x 15.4	196 x 93 x 15.4
Weight (g)	~ 145	~
Enclosure	Machined aluminium	

Two models with customisable buttons:



# SWP

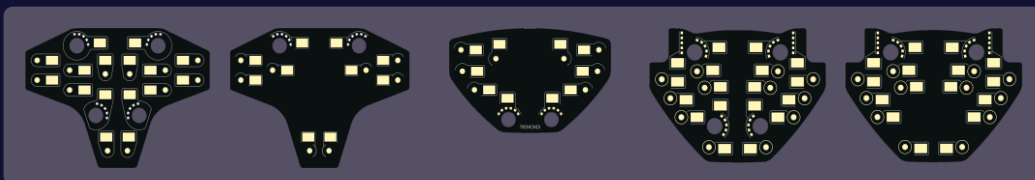
## STEERING WHEEL PANEL

Ergonomic steering wheel panels with customisable backlight buttons and rotary switches with addition of status LEDs provide powerful and sophisticated human-car interface.

All necessary functions can be controled directly from the steering wheel or they can be controled externally from ECU.

### Design layouts:

SWP-WRC3.1 SWP-WRC3.2 SWP-WRC3.3 SWP-WRC4.0 SWP-WRC4.1



Technical specification	SWP-WRC3.1	SWP-WRC3.2	SWP-WRC3.3	SWP-WRC4.0	SWP-WRC4.1
1 Digital ENCP (programming enable)	X	X	X	X	X
1 CAN line	X	X	X	X	X
Keyboard buttons + Status LEDs	15	10	8	12	12
Mechanical rotary switches + Position LED groups	4	2	2	4	2
Horizontal roller	X	X	X	2	2
1 Engine start button					(X)
2 Digital input with pullup	X	X	X	X	X
Overall dimensions (mm)	209 x 153 x 29(42)			190 x 139 x 33 (48)	
without connector (with connector)				189 x 118 x 24(39)	
Weight (g)	~ 325	~ 290	~ 245		
Enclosure	Machined aluminium				

# XHPL

## LED RACING EXTRA LIGHTS

New generation of all in one XHPL spot lighting units with lightweight design and high efficiency designated especially for rally applications. Excellent luminosity together with minimum current consumption make these lights state of the art product, that can power up your projects.

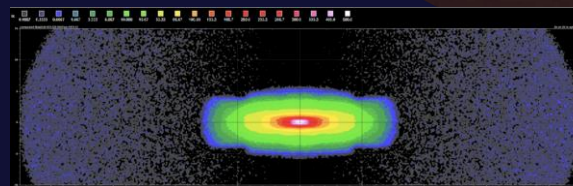
The high performance automotive multichip LEDs are used as the lighting source and can be monitored individually.

With significant aerodynamic characteristics and two combinable types of reflector, TREMONDI LED lights can be supplemented with a custom night face designed especially for your car.

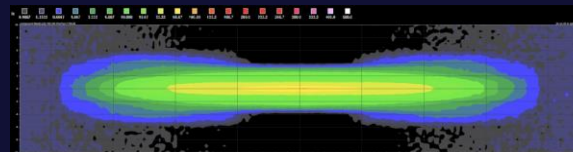


Technical specification	XHPL-1-01	XHPL-2-01
Power supply	12 V	12 V
1 Digital input (road/stage)	X	X
Lights source	2 LED modules	2 LED modules
Spot shape	long	wide
Total flux (lm)	1675	1705
Current consumption (A)	2,0	2,0
Overall dimensions (mm)	178 x 85 x 133	
Weight (g)	~ 420	~ 420
Enclosure	Plastic / aluminium	

long spot reflector



wide spot reflector



# COMPLEX SOLUTIONS

Beyond own products TREMONDI can offer many products of **Marelli Motorsport** and **Bosch Motorsport**. Compatibility of TREMONDI products with all Marelli and Bosch components is powerfull advantage for any racing project.

## Electronic systems

- Electronic Control Units
- Data Acquisition Systems
- large screen displays
- telemetry systems
- Collision Avoidance Systems
- Antilock Braking Systems

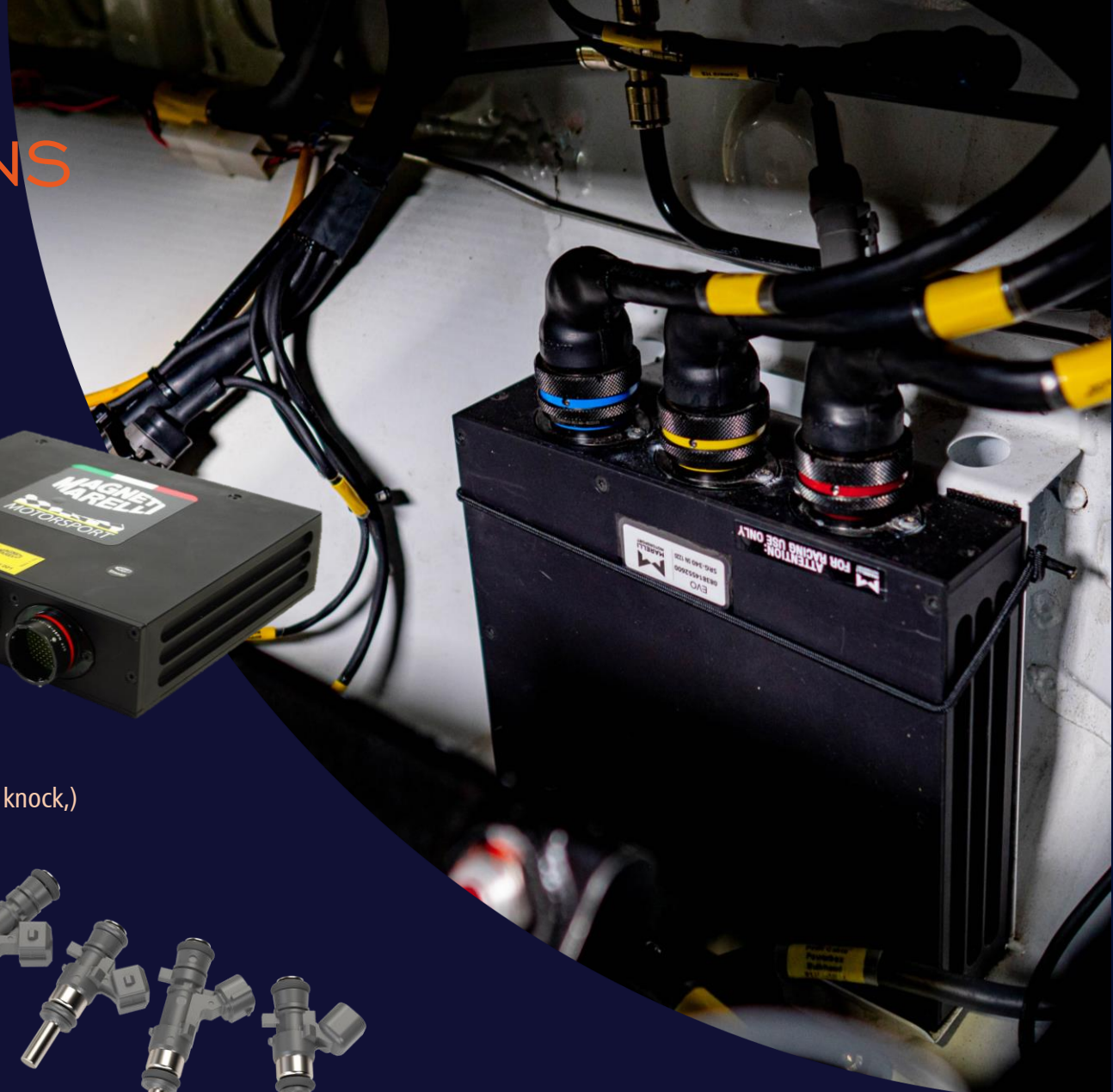


## Racing components

- fuel components (injectors, pumps)
- ignition components (coils, modules)
- sensors (pressure, temperature, position, angle, speed, knock,)
- car dynamics sensors
- lambda probes
- throttle bodies
- wiper motors



Exclusive dealer of



# WIRING HARNESESS

From design to manufacture TREMONDI offers custom wiring harnesses for every type of race car using mainly the proven **Raychem** technology.

TREMONDI uses all common automotive connectors such as Bosch, Delphi, Deutsch, Molex, Sumitomo, TE Connectivity KET, KUM and more with a possibility to fit your custom request.



# 3D PRINT

## DESIGN AND PRINT OF PLASTIC PARTS

For its own products TREMONDI uses widely the 3D printing technology and offers long term experiences with the design and print of custom designed plastic parts using CAD design systems and **FDM / SLA** printing technology.

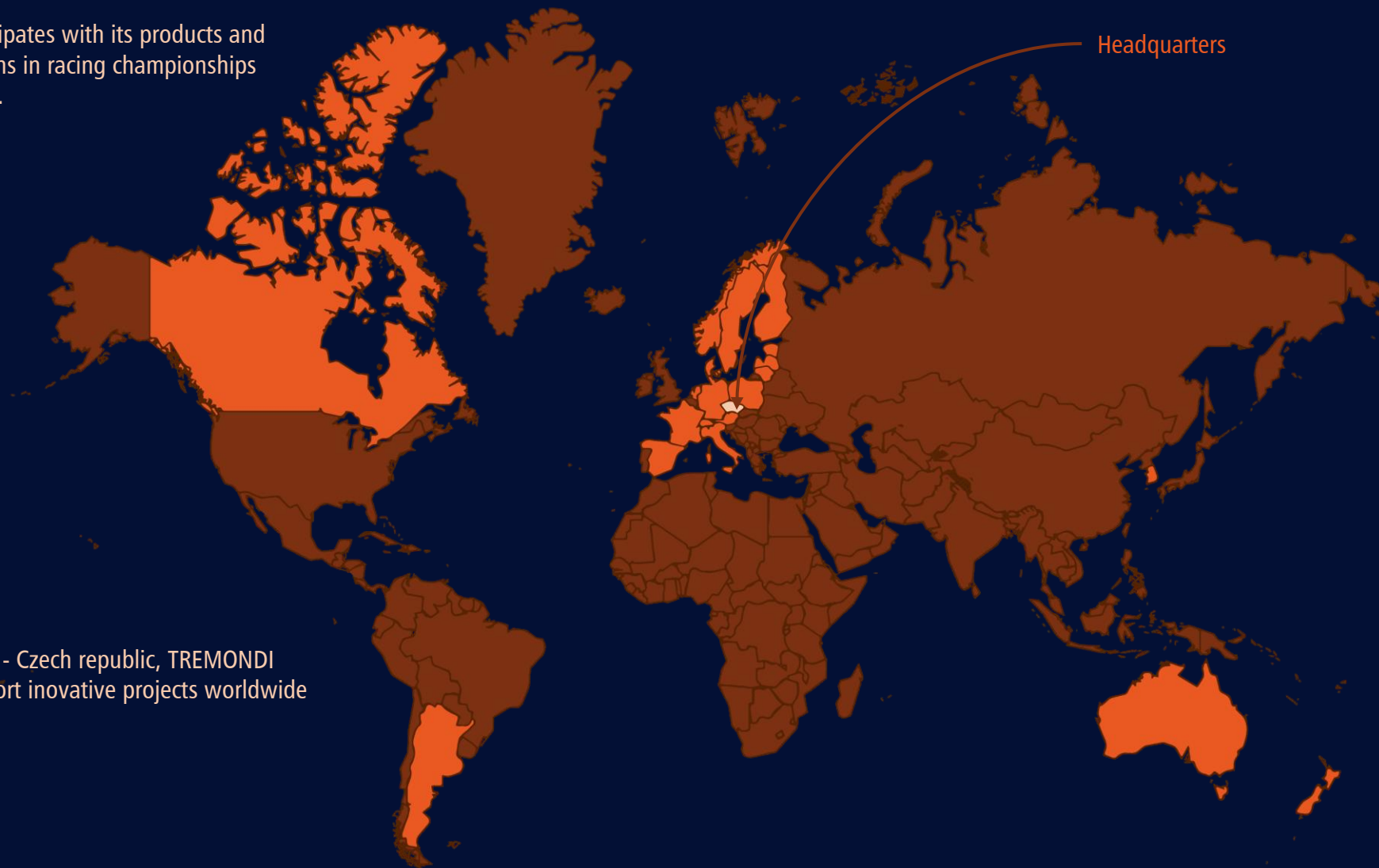




WORLDWIDE

## Where you can find our products?

TREMONDI participates with its products and electronic solutions in racing championships around the globe.



Headquarters

Established in EU - Czech republic, TREMONDI supplies motorsport inovative projects worldwide for over 25 years.