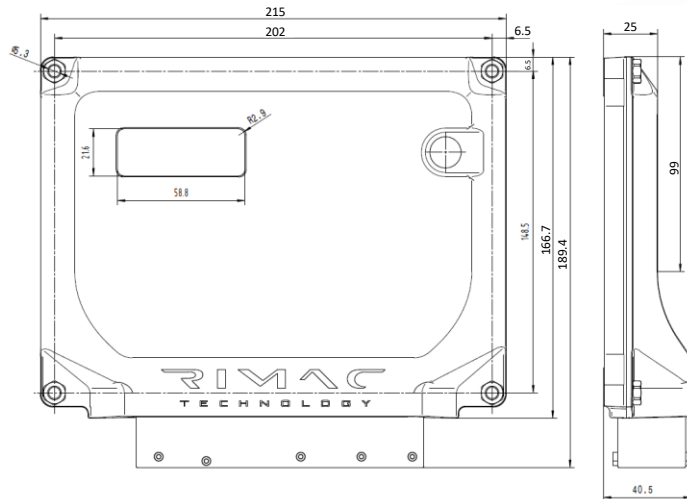




ECU_101

THROUGH THE DEVELOPMENT OF OUR ULTRA-HIGH PERFORMANCE HYPERCAR PROJECTS, WE KNOW THE ELECTRONICS AND CONTROL UNITS IN A VEHICLE ARE JUST AS CRITICAL AS THE DRIVETRAIN COMPONENTS THEMSELVES.

This is why we provide some of the most technologically advanced electronics on the market, all developed in-house by our engineering experts.



The ECU_101 is a vehicle control unit which is intended to be used in the C_TWO on various positions. It controls different parts of the vehicles, including the powertrain, body, lights and cooling. The control unit is built around NXP SCP 5744 CPU with all necessary design considerations to comply with ASIL D standard. It has 28 inputs, 34 outputs and various communication types.

BASIC SPECIFICATIONS

VOLTAGE RANGE	8.0V – 16.0V DC, 26V tolerant
OPERATING TEMPERATURE	-40°C to +85°C
INTERFACE	LIN, CAN, Flex Ray, BroadReach
INPUTS	1 x ENABLE 4 x WAKE UP 4 x HALL, 4 multiplexed with digital inputs 8 x digital input pins, 0V – Vbat 12 x digital-analog inputs, 12bit, 0V – Vbat 8 x analog inputs, 12 bit, 0V – Vbat
OUTPUTS	1 x FAULT output 16 x digital outputs 6 x 20A PWM outputs, 20kHz 4 x 10A PWM outputs, 20kHz 8 x 4A PWM outputs, 25kHz
PROCESSOR	NXP automotive PowerPC MPC5744P, Dual-Core 32bit, 200MHz, Internal RAM 384kB, Internal Flash 2500kB, ISO26262 compliance

MAIN FEATURES

- › INTEGRATED SAFETY FUNCTION
- › FLEXIBILITY AND CONFIGURABLE INPUTS AND OUTPUTS DURING RUNTIME
- › FUNCTIONALITY FULLY PROGRAMMABLE BY THE USER



