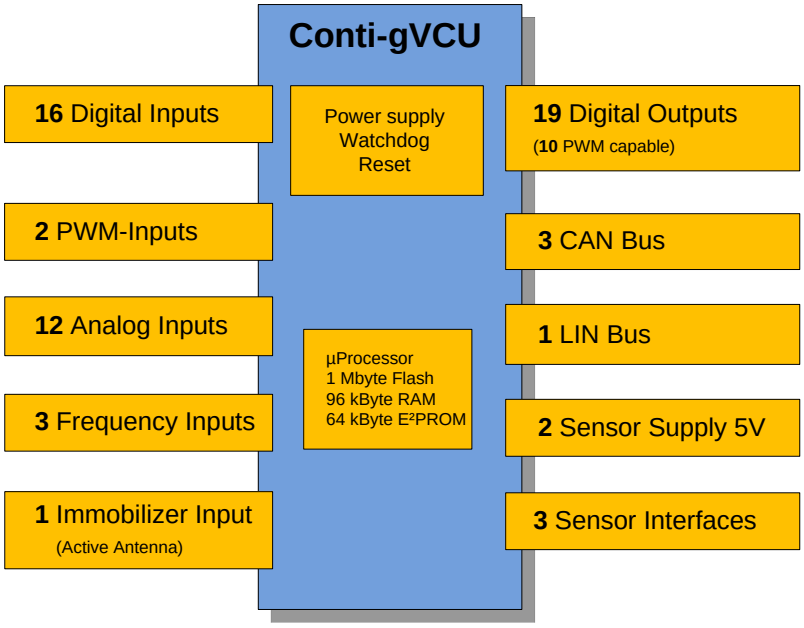
Conti-gVCU
Product Overview Information

General Description

Generic **V**ehicle **C**ontrol **U**nit for Driveline Dynamics Control Application as well as general usage.
Powerful 32Bit µController for Real Time Control Algorithms.

Application programming has to be done with MatLab® / Simulink® within our Model Based Development System (MBDS), the Operating System is already preinstalled.
The PC-based MBDS software development environment compiles and downloads the application program via CAN-Bus to the Control Unit.
The Conti-gVCU has 2 free CAN-Interfaces compliant to J1939. The 3rd CAN interface is used for software download and diagnostic features.



Application

The Control Unit is free of any application program.
The user can create his own application program to define the functionality of the I/Os.
Some inputs are designed for special purposes like PWM or current sink characteristic for sensors.
Several outputs can used as simple digital switching outputs or as PWM outputs.

Operating Principle

The Conti-gVCU system consist out of 3 parts:

1. Control Unit
2. MBDS – Model Based Development System (separate part number) for configuration and downloading
3. A set of MatLab® / Simulink® components for the application programming (to br ordered directly from MathWorks®)

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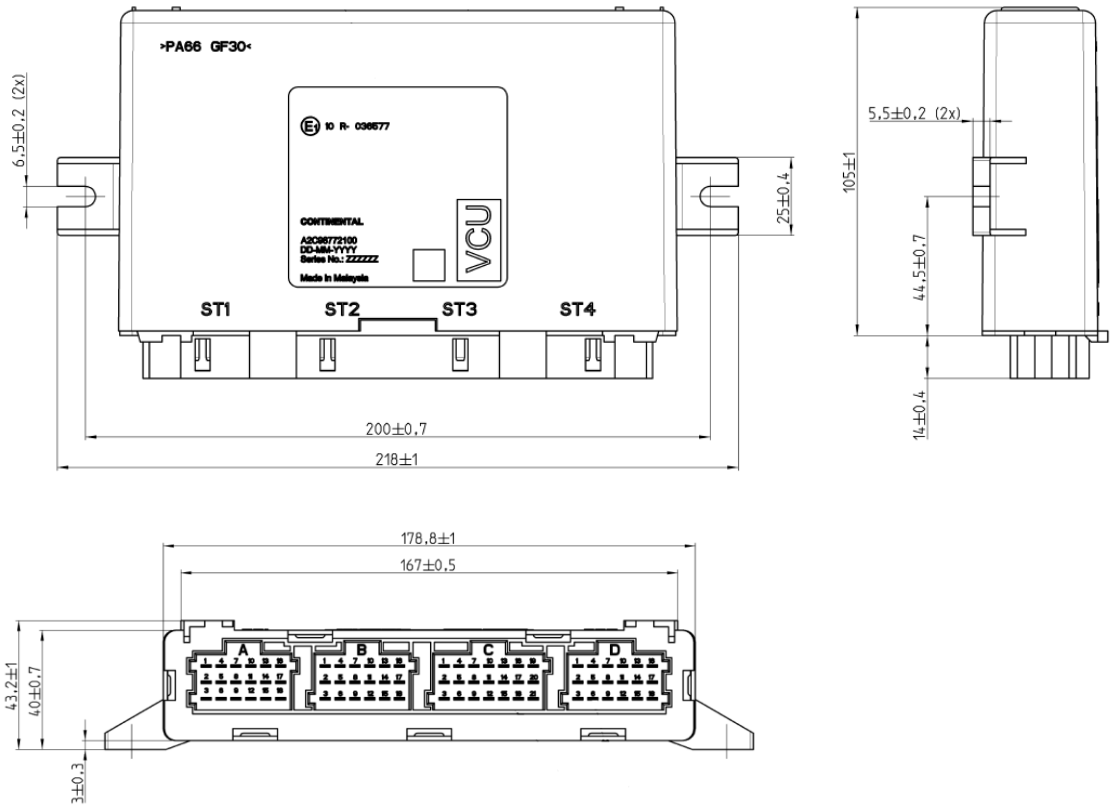
Mechanical Dimensions:



Technical Data ECU	
Housing	Plastic housing with brackets for screw mounting 218 x 119 x 43,2 mm (with brackets and connector)
Nominal Voltage	12 / 24 V
Operating Voltage	10 - 32V
Current consumption	max. 5A @ 24V
Operating temperature	- 40 to + 80°C
Storage temperature	- 40 to + 90°C (2h)
Protection Class	IP40
Quiescence current	≤ 1mA
Testing acc.	ISO 16750
ESD acc.	ISO 10605
Connector System	Tyco MCP 2.8mm Part Numbers 7-968974-1, 8-968974-1, 8-968975-1, 6-968974-1

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