

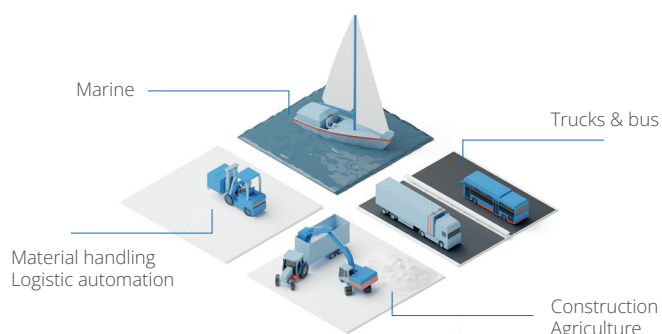
PTcontrol AM4-GC

Automotive grade I/O controller

AM4-GC is a rugged, CAN-based extension solution designed to expand the I/O capabilities of existing controllers. Housed in a durable IP69K-rated enclosure, it is built to withstand harsh environments, making it ideal for demanding industrial and mobile applications. By enabling remote installation, the module reduces cabling complexity and cost, offering a flexible and efficient way to scale your system.



Application



Tailored design

Our CPU/MCU building blocks can be equipped with a wide range of peripheral and I/O building blocks, allowing for the creation of tailored designs that meet specific customer requirements. Additionally, we offer the flexibility to integrate custom-designed circuits to address unique application needs.

Distributed systems

In distributed systems, these peripheral and I/O circuits can be incorporated into standalone I/O modules, which interface with the main controller via industrial standards such as Ethernet, TSN, Ethernet, CAN, or other relevant protocols. This approach ensures scalable, efficient, and adaptable solutions for complex industrial applications.

Product features



Cost optimized



Robust



FreeRTOS



Ruggedized design

Scalable and customizable

This product is a scalable and customizable solution built on proven technology building blocks, offering unmatched flexibility for a wide variety of applications. With the ability to upgrade the main processor and memory as well as the ability to tailor digital and analog I/O to your exact needs, this controller is designed to grow with your application while ensuring reliable performance and seamless integration.

Processing & Memory

Microcontroller	32-bit Single Core 200MHz
Program Flash	2MB
Memory	520kB SRAM
Storage	4GB eMMC

Interfaces

CAN	2x CAN 2.0 up to 1Mbit/s
Serial	RS232/RS485 receiver
Outputs	2x Low-Side (PWM), 6x High-Side DO
Inputs	9x DI, 3x AI
NTC	3x NTC thermistor inputs

Automotive Electrical Compliance

Nominal voltages	12/24V DC
Load Dump	ISO 16750-2
Automotive transients	ISO 7637-2/3

Environmental Compliance

Ambient temperature	-40 to +85°C
Thermal Shock	IEC 60068-2-14 (Na)
Vibrations	IEC 60068-2-64, 1.15Grms
Mechanical Shock	IEC 60068-2-27, 50G
Humidity	IEC 60068-2-38 (Z/AD), RH=95%
Salt Spray	IEC 60068-2-52 (severity 5)
IP rating	IP69K
Chemical resistance	Oil, Diesel, Antifreeze, brake fluid, battery acid

Regulatory

Europe	CE
North America	FCC

Information subject to change, contact us for more details

PRODRIVE
TECHNOLOGIES