

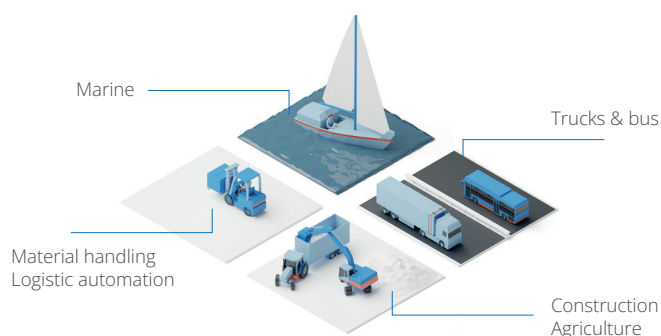
PTcontrol AM4-LD

CRA-Aligned Cybersecurity Module

AM4-LD is a rugged, CAN-based cybersecurity gateway designed to protect traffic and devices across internal vehicle networks. Housed in a durable, industrial-grade enclosure, it is built to withstand the demands of heavy-duty trucking environments, making it ideal for mission-critical mobile applications. By isolating internal CAN buses from external service connectors, the gateway prevents unauthorized access from reaching digital devices inside the vehicle, offering a reliable and scalable layer of defense against cyberattacks.



Application



Complete Control

Core functionality such as bootloader management, CAN APIs, and filtering essentials - including software filters, hardware peripheral filters, and filter management - are supplied, allowing customers to retain full control over end applications, remote update mechanisms, firmware validation of system components, and CAN traffic management. This approach ensures a flexible, secure, and scalable foundation for complex automotive and industrial network applications.

Typical CRA Required Use Case

Authorized maintenance commands that would otherwise be disruptive are permitted only upon verification, while all field firmware updates undergo integrity validation before acceptance. Unauthorized or inappropriate messages are blocked from always reaching internal devices.

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 & Interface

Microcontroller	32-bit Single Secure ARM based MCU
Memory	64MB SDRAM
CAN	3x CAN port [1:3] native CAN ports supporting CAN-FD

Security Features

Secure boot with verification of signed application

Key vault for remote firmware validation

Authenticated CAN filters (depends on chosen authentication method and CAN protocols)

Automotive Electrical Compliance

Nominal voltages	9-32V 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:

WWW.PRODRIVE-TECHNOLOGIES.COM

SALES@PRODRIVE-TECHNOLOGIES.COM

+31 (0)40 2676200

PRODRIVE
TECHNOLOGIES