



**Electric functions control  
with safety, cybersecurity  
& diagnostics features.**

MPS33 is the latest generation of master controller for connected electrical architectures, integrating advanced safety and cybersecurity. This automotive-grade ECU ensures secure multiplexed management, main relay activation, and easy control of lights, wipers, fans, and other key functions. It can also serve as an H-bridge for bidirectional motor control.

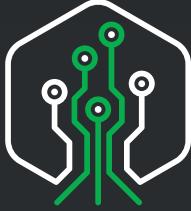
# MPS 33

**SMART,  
SECURE  
CONTROL FOR  
ADVANCED ELECTRICAL  
ARCHITECTURE**

The GH GreenHills logo is a dark green square containing the letters "GH" in a white, bold, sans-serif font. Below "GH" is the word "GREENHILLS" in a smaller, white, all-caps sans-serif font.



# MPS 33



## SMART, SECURE CONTROL FOR ADVANCED ELECTRICAL ARCHITECTURE

A complete reliable automotive solution.

### From start of the project:

- Development variant.
- Intuitive Board Support Package.
- Starter kit & training sessions.

### Throughout the vehicle's life:

- Designed, Maintained & Manufactured by ACTIA.
- Maintenance in Operational Conditions.
- Maintenance in Cybersecurity Conditions.
- Obsolescence Management.

#### High-performance and safety-ready architecture:

ideal for automotive applications requiring compliance with ISO26262 safety standards.

#### Modular and customizable design:

it supports a wide range of electrical functions - lights, wipers, doors, fans, etc. - with flexible input/output configurations and CAN/LIN communication interfaces.

**Cybersecurity features:**  
ensures robust and secure operation in modern vehicle environments.

### ECU

POWER SUPPLY	12V - 24V
DIMENSION	199.45mm x 167mm x 48.3mm
SAFETY	ISO26262 ASILB
CYBERSECURITY	By software

### CONNECTIONS & COMMUNICATION

INPUTS (ANA, FREQ, TOR, R, CURRENT, WAKE-UP)	Up to 21
OUTPUTS (HS, LS, PWM, H-BRIDGE)	Up to 22
CAN INTERFACES	Up to 2 CAN 2,0B + FD
LIN	2

### PROCESSING

CPU CORE	<ul style="list-style-type: none"><li>• 32 bit CPU</li><li>• Power PC range</li></ul>
MEMORY	<ul style="list-style-type: none"><li>• Flash up to 6MB</li><li>• RAM up to 768kB</li><li>• External EEPROM up to 64kB</li></ul>

### ENVIRONMENT

TEMPERATURE	<ul style="list-style-type: none"><li>• -40°C / +85°C operating</li><li>• -40°C / +105°C storage</li></ul>
OTHERS	<ul style="list-style-type: none"><li>• High resistance to shock</li><li>• Vibration</li><li>• EMI/EMC</li><li>• Drastic changes in temperature</li></ul>
IP GRADE	IP5K2

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