

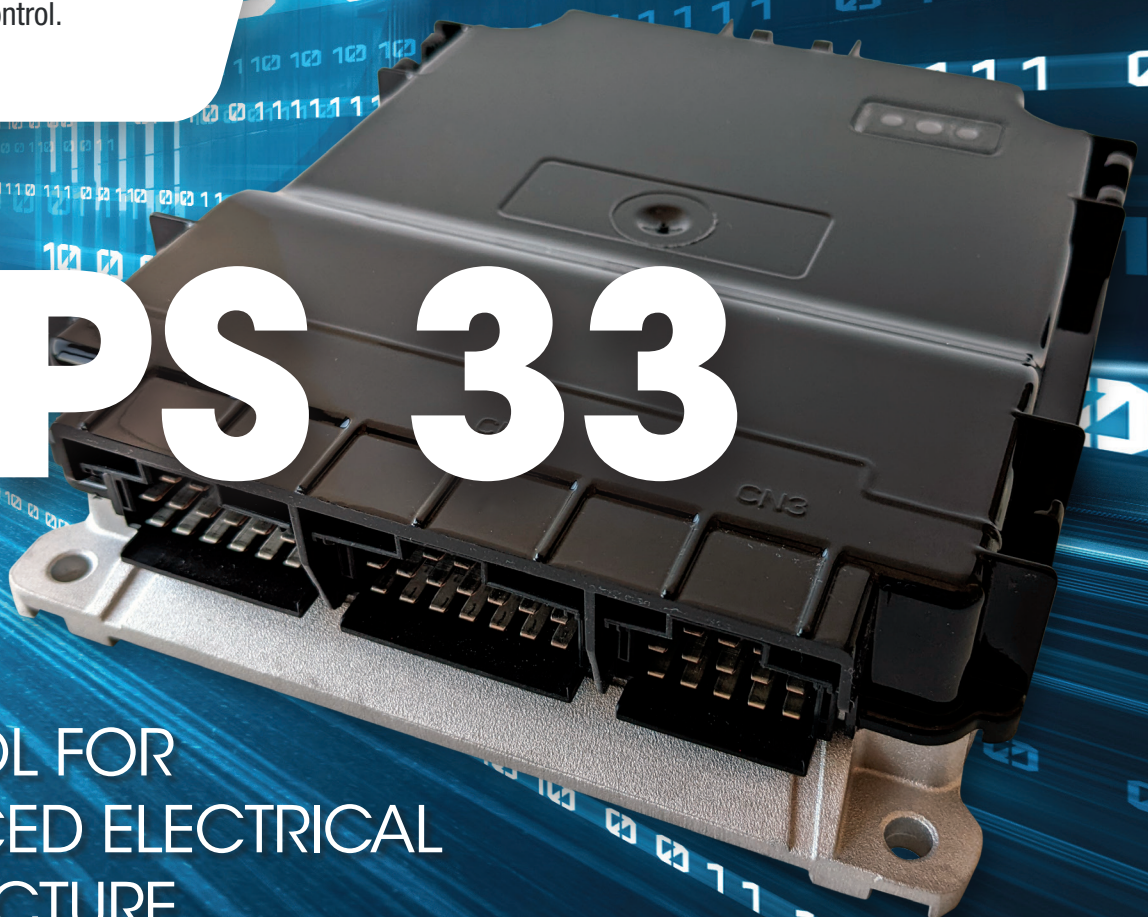


**Electric functions control  
with safety, cybersecurity  
& diagnostics features.**

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



# 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 standardst.

### 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

