

Spitronics – Introduction – Guide

1. Overview

Spitronics is a modular standalone engine management and vehicle control system designed for a wide range of automotive applications.

The system is used to control:

- Engine operation (fuel and ignition)
- Transmission systems
- Throttle-by-wire (TxW)
- Auxiliary vehicle functions

Spitronics forms part of the EeziRider Engine Management product range.

2. System Concept

Spitronics is built on a modular and firmware-driven platform.

A common hardware base is used across multiple applications, with functionality defined by firmware and system configuration.

This allows:

- One platform to support multiple applications
 - Reduced hardware variation
 - Consistent user experience
 - Easier upgrades and maintenance
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3. Product Range

Spitronics products are grouped into functional categories:

- ECU systems
- TCU systems
- Control modules (TxW, boost control, cam control, etc.)
- Interface and support modules

Each product is designed with specific input and output configurations to suit its intended application.

4. How the System Works

A Spitronics system operates by processing input signals and controlling outputs.

Sensors → ECU → Outputs

Typical Inputs

- Crank and cam position sensors
- Throttle position
- MAP and temperature sensors

Typical Outputs

- Injectors
- Ignition coils
- Solenoids and actuators

The ECU processes these signals and controls engine and vehicle functions accordingly.

5. Software Ecosystem

Spitronics uses dedicated tuning software platforms depending on the system:

- Hyperspace (open systems)
- Cosmos (application-based systems)

These platforms provide:

- System configuration
- Monitoring and diagnostics
- Tuning capabilities

👉 Software must match the ECU and firmware type

6. Flexibility and Upgrades

Spitronics systems are designed for flexibility and scalability.

- Different hardware configurations support different applications
 - Firmware defines system functionality
 - Newer systems may replace older systems
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7. Support Model

Spitronics products are designed as DIY systems supported through structured documentation and guided setup procedures.

Support is primarily provided through:

- Product manuals and setup guides
- Software documentation
- Troubleshooting guides

👉 This approach allows the system to remain cost-effective and scalable.

Additional services such as installation, tuning, and diagnostics are provided by:

- Independent installers and tuners
- Approved dealers (where applicable)

👉 The level of support required depends on the system type and application.

8. Important Notes

⚠ Spitronics products are specialised performance systems

⚠ Correct installation and setup are essential

⚠ Incorrect configuration may result in engine damage

9. Where to Start

To begin using your system:

👉 Go to: **Getting Started**
