

What is a sunroof micro-module



Overview

The power behind the sunroof module: it is a standalone electronic unit designed to drive up to two motors for foldable roofs. Its intelligent motor control delivers smooth, precise sunroof operation for effortless opening and closing. Enjoy the perfect blend of comfort and convenience with our. Sunroof controls are designed to provide seamless and efficient control over automotive sunroof systems. Whether it's adjusting the opening angle, managing the shade, or implementing anti-pinch safety measures, sunroof controls ensure a smooth and responsive experience for both drivers and. A sunroof control system combines an MCU and intelligent power device (IPD) to deliver precise, efficient, and reliable operation. The MCU serves as the system's core, interpreting user inputs such as switches or touch commands and managing functions like tilt, slide, and full open/close positions.

Article Content

May 23, 2026

Small-Footprint Sunroof Motor Module Reference Design

Two of these devices are used in this design to encode the speed and direction of the motor used for opening and closing a sunroof. The magnetic field is indicated through a digital bipolar latch output. ...

May 18, 2026

A guide to sunroof glass

The mechanism used to open the sunroof is either fixed so that when opened, the sun roof vents, or operable so that the sunroof slides and retracts either onto the roof or beneath the interior headliner.

Nov 14, 2025

Smart Inverter Interoperability Standards and Open Testing ...

Distributed energy resources, typically consisting of solar photovoltaic and energy storage systems on homes and commercial buildings, are a growing source of power on the electric grid. Paired with ...

Mar 13, 2026

ELECT-18, Sunroof Component Testing

This micro-switch serves to stop the sunroof in the fully raised position on early 944 sunroof systems (1982 - February 1986). The mirco-switch is also present on later sunroof systems and functions as a ...

Jan 07, 2026

Sunroof Component Testing

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Dec 05, 2025

Sunroof Control

These components not only enhance the performance and precision of sunroof operations, but also contribute to the overall safety and energy efficiency of the vehicle.

Jun 16, 2026

Sunroof Parts Diagram and Component Breakdown

Detailed sunroof parts diagram with labeled components. Explore key elements, including tracks, motors, seals, and glass panels, for proper maintenance and repairs.

Aug 10, 2025

Roof control module

The role of roof control modules in automotive extends beyond basic functions like reading lights, encompassing interior and ambient light control, as well as sunroof and blind control.

Jan 29, 2026

Sunroof module

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Nov 03, 2025

Sunroof Controller | Renesas

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