

You Imagine, AI Executes

Empowering Remote Control and Monitoring for Seamless Validation and Verification

The Rutomatrix is an advanced remote operations management solution that allows you to control and monitor your Embedded platforms from anywhere in the world.



Integration Platform



Automation, Intelligence & Testing



Scalability & Flexibility



Insights & Empowerment

Features

Real-time Remote Access

Interact with devices from anywhere using smooth video, audio, and control through a secure web interface.

Automated Software Deployment

Flash firmware, install operating systems, and push updates remotely with minimal effort.

Built-in Signal & Protocol Insight

Capture and analyze key digital signals to understand device behavior and troubleshoot issues faster.

Intelligent Power & System Control

Automate power cycles, resets, and system monitoring without needing to physically touch the hardware.

USB & Peripheral Virtualization

Connect USB tools, debuggers, and storage devices over the network as if they were plugged in locally.

Multi-modal Device Streaming

View HDMI, camera, and thermal feeds together for complete visual insight into any device or setup.

AI-assisted Testing & Debugging

Leverage intelligent automation to generate tests, analyze failures, and shorten development cycles.

Physical Workflow Automation

Use robotic extensions to perform repetitive physical actions like button presses or connector operations.

A Symphony of Smart Automation

- 1. AI Assisted Testing & Debugging**
Rutomatrix's AI spins up test code and debugs on the fly, like a robotic maestro perfecting its own symphony.
- 2. Intelligent Hardware Orchestration**
It conducts the hardware like a digital conductor, aligning GPIOs, sensors, and power lines in a perfect automated harmony.
- 3. AI Analytics & Prediction**
Using data, Rutomatrix's AI can foresee glitches and adapt tests in real time.
- 4. Context-engineered LLM**
Rutomatrix's in-house LLM is built on context engineering, enabling precise understanding of hardware states, test intent, and system constraints for accurate decision-making.

Advantages of Remote Test Management

Discover How Rutomatrix Stands Out From the Competition With These Core Benefits

<p style="text-align: center;">Affordability</p> <p>Unlock significant savings without sacrificing quality with our affordable, cost-effective product solutions.</p>	<p style="text-align: center;">Ease of Setup</p> <p>Enjoy a hassle-free experience with our product's straightforward and quick setup process.</p>	<p style="text-align: center;">Efficiency Boost</p> <p>Boost your productivity with our product's streamlined design for maximum output with minimal effort.</p>	<p style="text-align: center;">Flexibility</p> <p>Experience unmatched adaptability that seamlessly adjusts to your changing requirements.</p>
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Unlock Your Ideal Rutomatrix

RUTOMATRIX
The Essentials - Simplified

Rutomatrix Base delivers reliable remote access with stable video streaming, OS flashing, and simple power automation. Designed for remote engineers and early bring-up or lightweight validation setups, it provides core functionality without added complexity.

RUTOMATRIX Pro
More Insight. More Intelligence.

Rutomatrix Pro builds on the Base with Rutocam for visual and thermal monitoring and Rutoscope for logic-level insights. Ideal for embedded and QA teams needing richer diagnostics and smarter multi-sensor validation workflows.

RUTOMATRIX HPC
Automation at Full Power

Rutomatrix HPC represents the highest tier, combining Rutocam, Rutoscope, and RutoAI with robotics and high-performance compute. With local LLM-driven intelligence, it supports enterprise labs and high-volume environments requiring advanced automation and complex validation.