

Secure, driver-free remote embedded lab in NECTO Studio IDE

### 24/7 REMOTE BOARD FARM WITH LIVE-STREAMING

POWERED BY:





PROGRAMMER/DEBUGGER





#### Why Planet Debug?

### Because this is the future of embedded development

- ✓ Secure and private: SSL-encrypted access, only the HEX file is transferred – your source code stays local
- ✓ Real hardware access not a simulation, interact with dev boards and peripherals in real time
- ✓ Live camera feedback observe real behavior: LED blink, TFT refresh, sensor data in motion
- ✓ Easy access: works reliably over standard WiFi– available anytime, anywhere

- ✓ Flexible: multiple boards and architectures supported
- ✓ Time-saving: no shipping, customs, setup or lead time
- ✓ Low-cost, scalable model \$4/day
- Instant silicon adoption: let users evaluate your MCU on day 1
- ✓ Green: reduce hardware waste and energy use
- ✓ Equal opportunity for all no financial or location barriers





#### How do we do it

# CODEGRIP, dev board, peripherals, camera, NECTO Studio: all set

- Download NECTO Studio → Click Planet
   Debug → Select a setup → Start coding
- Powered by CODEGRIP, the world's first programmer/debugger over Wi-Fi, and fully integrated into the NECTO Studio IDE, Planet Debug lets you program and debug real hardware remotely — your code, running in real time, no simulation
- Live-streaming camera allows you to see your code in action — LEDs blinking, sensors updating, screens refreshing — all inside the NECTO Studio IDE





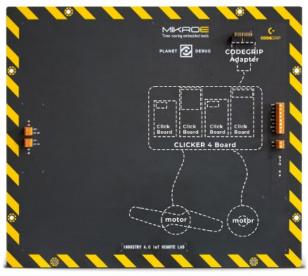
Embedded lab backplane front



Built-in CODEGRIP programmer/debugger



Embedded lab backplane back



Embedded lab backplane in use

#### Try before you buy

# 200+ available setups free of charge

- Instantly access 200+ ready-to-use setups hosted worldwide
- No registration, no fees just open NECTO Studio and get started
- Try before you buy no more wasted money on tools that don't fit your need, experience the hardware before making a commitment





#### Your personal remote embedded lab

# Make your own board farm

- Replicate Planet Debug in your company or university using a standardized, customizable hardware frame, or build your own
- Add any NECTO-supported dev boards on Planet Debug backplane and create your setup
- Use NECTO Studio IDE to connect and manage your board farm from anywhere, you are admin on your location
- Ideal for internal development, remote learning programs, and multi-site teams







#### Planet Debug for education

# One global classroom

- Planet Debug redefines embedded education

   providing students and educators with
   remote access to real, professional-grade
   hardware from anywhere, without the need for costly setups or timely hardware setup
   connection issues
- Collaborate in real time across labs, classrooms, and continents in real time
- Equal opportunity for all no financial or location barriers
- Ideal for universities, online courses, and remote workshops



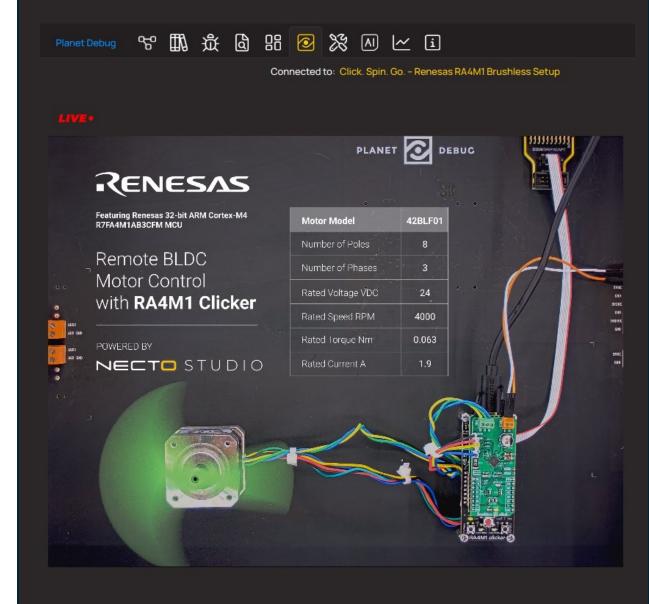


#### Let your silicon become part of Planet Debug

# Make your product accessible from day one

- Join the Planet Debug ecosystem by requesting a branded setup featuring your MCU, peripheral, or evaluation board
- Once supported in NECTO Studio, MIKROE deploys your branded setup on Planet Debug, including your logo, part number, application tags, etc.
- Users anywhere in the world can evaluate your product on launch day
- Hosted and maintained by MIKROE: zero shipping, zero-support infrastructure







#### Why choose Planet Debug?

### Planet Debug vs. Traditional Setups vs. Simulators

	Traditional Hardware Setup	Virtual Simulator	Planet Debug
Access to real hardware	Yes, but only if physically available on-site.	No – simulation only.	Full access to real boards and peripherals through live remote interaction.
Visual feedback	Yes, locally. No remote visibility.	No visual feedback – virtual representation only.	Real-time camera view – see LEDs, TFT screens, sensor behavior as it happens.
Security	Depends on local setup; sharing hardware adds risk.	Local-only – Limited to simulation boundaries.	SSL connection; only HEX file is transferred, source code stays local.
Cost	High – hardware purchase, shipping, customs, maintenance.	Low license - without real-world value.	Free for standard setups, only \$4/day for custom ones.
Time to access	Delayed – requires delivery, installation, configuration.	Fast – instant install, but no hardware.	Immediate – use setups 24/7 without waiting.
Maintenance overhead	High – user must update and maintain all hardware and software components.	Minimal – managed by software vendor, but no physical aspects.	None - MIKROE maintains all remote setups.
Educational suitability	Limited – depends on physical presence, high cost per student.	Basic – useful for theory, not practice.	Ideal – students access real boards remotely, no physical lab required.
Configuration flexibility	Low – hardware changes require physical replacement and setup.	Moderate – within simulator limits.	High – request custom setups or build your own Planet Debug station.
Scalability	Poor – scaling requires buying and deploying more hardware.	Scales easily, but lacks realism.	Excellent – one setup can serve global users, supports large educational groups and remote teams.
Real-world validation	Yes, but only locally. No remote collaboration or visibility.	Not accurate – lacks physical behavior fidelity.	Complete – code is tested on real, physical systems with realistic behavior.





#### **Try Planet Debug now**

### Download NECTO Studio











Thank you for your attention.

