

**TASKING®**

# IC7MINI BLUEBOX

THE NEXT GENERATION OF BLUEBOX DEBUGGERS



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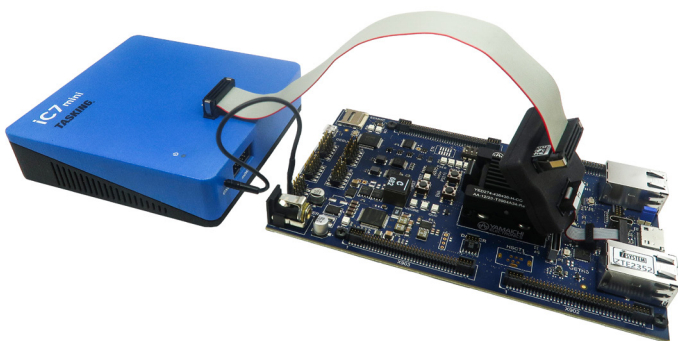


### OVERVIEW

The iC7mini BlueBox is a next-generation platform designed for flashing, debugging, and testing a wide range of embedded microcontroller architectures. It includes multi-core support and an Automation SDK supporting all popular programming languages. Additionally, it offers testIDEA unit testing and daqIDEA data acquisition and visualisation tool.

Designed to excel as a debug and test tool, the iC7mini BlueBox is particularly well-suited for scenarios where advanced timing statistics and analysis are deemed unnecessary.

Unlocking new possibilities, the iC7mini BlueBox empowers you to establish cost-effective Continuous Integration (CI) set-ups, fostering an environment where CI processes accelerate through seamless collaboration across various locations. Tailored for effortless integration into CI test racks, the iC7mini's compact size ensures a harmonious fit. Moreover, its passive cooling system guarantees a quieter working environment, delivering functionality without compromising peace.



iC7mini BlueBox connected to a TC4x target

### Product Benefits

- Performance
  - Improved debug performance in comparison with previous BlueBox generation
  - Universal approach and easy switching for debugging multiple microcontrollers architectures
  - Standalone CI operation ready
  - Improved remote operation
- Automation and integration
  - SDKs for all popular programming languages
  - Continuous Integration
- Hardware design
  - Improved tolerance for poor ECU designs and electrical disturbances
  - Compact size
  - Noise-free operation for a quieter working environment
  - Smooth integration in Continuous Integration test racks
  - USB PD power supply ensuring ease of use

### Product Features

- Supporting winIDEA, Eclipse, and Visual Studio Code IDEs
- Unit testing with testIDEA
- Data acquisition and visualization with daqIDEA
- Multi-core debug support
- Flash programming
- External/On-chip memory programming
- Target hold control after Reset
- Hot attach/detach capable
- Autonomous data acquisition
- Time-critical SoC management (Low Power Mode)
- Target pin/power control

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PC interface Ethernet	USB 3.0, 10/100/1000 Ethernet
Size	113 mm x 113 mm x 45 mm (L x V x H)
Cooling system	Passive
Debug signal valid input voltage range	1.8 - 5.0 V (max. 5.5 V)
Debug performance*	Up to 120MHz
Trace support	On-Chip trace buffer
Galvanic isolation	✓
HIL	✓
mDIO port	✓
Supported Microcontroller Architecture	<ul style="list-style-type: none"><li>• Infineon AURIX</li><li>• ARM Cortex</li><li>• RH850 Renesas</li><li>• NXP/ST Power Architecture</li><li>• RISC-V</li><li>• <a href="#">others</a></li></ul>

\*depending on a protocol and target design

### LICENSING

For additional information about iC7mini BlueBox licensing please contact us at [www.tasking.com/contact](http://www.tasking.com/contact) or visit our support page at [www.tasking.com/support](http://www.tasking.com/support).

### DOCUMENTATION

- [iC7mini BlueBox Hardware User Manual](#)
- [Getting started with BlueBox Technology Tutorials](#)
- [mDIO Configuration and Use cases](#)
- [Knowledge Base](#)
- [Automation SDKs](#)