



Microvisor

An IoT Device Builder Platform for embedded developers to build connected devices, reliably debug & update their firmware safely over the air whenever needed, and have their IoT solutions secured & managed throughout their lifetime.



Secure Remote Debug

Debug your code from anywhere in the world, using the tools you're already familiar with. Troubleshoot directly on the affected device and resolve issues quicker.



Failsafe Firmware OTA

Our upgrader ensures that you can never "brick" a device with a bad deploy. Code that crashes immediately at power on? Just push a fix to recover your device.



Managed Security

Twilio continuously monitors everything for weaknesses and security vulnerabilities – from radio firmware to the network stack to cryptography, and Microvisor is updated as necessary.



Managed Connectivity

Connectivity is easily considered a given – it is not. Twilio Microvisor, however, ensures 24/7/365 access to your devices for unlimited debug sessions and firmware updates.

The Twilio advantage

Build on a platform trusted by

7 million

developers, and

250,000

businesses





About Twilio Microvisor

A microvisor is a hypervisor for microcontrollers. Twilio Microvisor is an implementation of the microvisor architecture and offers managed infrastructure with many additional features. It uses Arm® TrustZone® technology to provide a secure environment for your code to run within – on compatible Cortex®-M microcontrollers. While installed in your factory, Microvisor is fully managed by Twilio, so you can rely on it for 24/7/365 connectivity and lifelong security.



Faster time-to-market

Focus on your value-added application, don't spend time and money on building out common infrastructure.



Lower TCO

Lower your total cost of ownership by reducing required staffing, possible product recalls, and infrastructure maintenance cost.



Full interoperability

Microvisor is completely unopinionated. Re-use your code and develop in any language, on any OS, any cloud, with any CI/CD pipeline and any toolchain.



Lower business risk

Rely on Twilio to keep your devices connected, retain 24/7/365 access for failsafe firmware updates, and keep your entire stack secure.

"We have been standardizing on STMicroelectronics chips for our pipeline pig tracking and signaling equipment, so getting managed connectivity from Twilio Microvisor on the new STM32U585 MCU fits our needs perfectly."

Jason Farque
VP of R&D, CDI Piggings

