

[RT-Thread](#) je Real-Time Operating System (**RTOS**), určený (aj) pre mikrokontroléry, pochádzajúci z Číny. Tento článok si však nekladie za úlohu predstaviť ďalší RTOS, ale skôr upozorniť na to, že v dnešnom svete možno nie je treba podceňovať našich ďalekovýchodných kolegov.

Automaticky preložený text z "About" celkom výstižne popisuje, čo je RT-Thread zač:

RT-Thread is a technology platform integrating real-time operating system (RTOS) kernel, middleware components and developer community.

It is developed by Mr. Xiong Puxiang and gathers the strength of the **open source** community.

RT-Thread is also a complete and rich component , Highly scalable, easy development, ultra-low power consumption, high security IoT operating system. RT-Thread has all the key components required by an IoT OS platform, such as **GUI**, **network** protocol stack, **secure** transmission, **low-power** components, and so on.

After 11 years of cumulative development, RT-Thread has already owned one of the largest embedded open source communities in China, and is widely used in many industries such as energy, vehicle, medical, consumer electronics, etc., with a cumulative installed capacity of more than 400 million units, becoming a national autonomous Development, the most mature and stable open source RTOS in China.

RT-Thread has a good software ecosystem, supports all mainstream compilation tools on the market such as **GCC**, **Keil**, **IAR**, etc.

The tool chain is complete and friendly, and supports various standard interfaces, such as POSIX, CMSIS, C application environment, Javascript execution environment, etc.

Commercially supports all mainstream MCU architectures, such as **ARM Cortex-M/R/A**, **MIPS**, **X86**, **Xtensa**, **C-Sky**, **RISC-V**, and almost all mainstream MCU and Wi-Fi chips on the market.

Z popisu na Githube vyberame:

RT-Thread has Standard version and Nano version.

For resource-constrained microcontroller (MCU) systems, the NANO kernel version that requires only 3KB Flash and 1.2KB RAM memory resources can be tailored with easy-to-use tools.

For resource-rich IoT devices, RT-Thread can use the on-line software package management tool, together with system configuration tools, to achieve intuitive and rapid modular cutting, seamlessly import rich software packages, thus achieving complex functions like Android's graphical interface and touch sliding effects, smart voice interaction effects, and so on.

RT-Thread is an open source software and has been licensed under Apache License Version 2.0 since v3.1.1.

Linky

[Zdroje RT-Thread na githube](#)

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[RT-Thread anglická verzia stránky](#)