

Raspberry Pi Iot Projects

SensorThings API g. , Raspberry Pi or BeagleBone). While the above-mentioned IoT networking protocols are addressing the ability for different IoT systems to exchange information, OGC SensorThings API is addressing the ability for different IoT systems to use and understand the exchanged information. It is an open standard addressing the syntactic interoperability and semantic interoperability of the Internet of Things. light-weight server for IoT gateway devices (e. As an OGC standard, SensorThings API also allows easy integration into existing Spatial Data Infrastructures or Geographic Information Systems. Whiskers aim to foster a healthy and open IoT ecosystem, as opposed to SensorThings API is an Open Geospatial Consortium (OGC) standard providing an open and unified framework to interconnect IoT sensing devices, data, and applications over the Web. It complements the existing IoT networking protocols such CoAP, MQTT, HTTP, 6LowPAN 732ec68500

The technical specifications of Orange Pi boards vary between models. Orange Pi OS, based on Arch Linux, is the officially supported operating system for Orange Pi boards. However, the boards are compatible with other operating systems based on the Linux kernel such as Android. 732ec68500

Zhiwei Robotics Corp. is a Chinese robotics manufacturer and open source hardware provider. provides electronic components and widgets such as Arduino controllers, Raspberry Pi, development boards, sensors and modules, robotics, and 3D printers. The company was founded in 2008 by Ricky Ye and is currently headquartered in Shanghai, China. Zhiwei Robotics Corp 732ec68500

The company's products range from simple microcontrollers to computers that the company markets as being powerful enough to be used as a general purpose PC. Computers are built around a... 732ec68500

Home Assistant It is a smart home controller that serves both as a smart home hub (sometimes called a "smart gateway") and an integration platform designed for interoperability, allowing users to have a single point of control and enable automating different smart home devices from a central location regardless of manufacturer or brand. This has since been renamed to "Home Assistant Operating System" Home Assistant is free and open-source software used to enable centralized home automation. Its customizable user interface can be accessed through any web-browser or by using its mobile apps for Android and iOS, as well as different options to also use voice commands via a supported virtual assistant. The software emphasizes local control and privacy and is designed to be independent of any specific Internet of Things (IoT) ecosystem without

having to rely on cloud services. make it easier to use Home Assistant on single-board computers like the Raspberry Pi series
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OGC SensorThings API... 732ec68500 The Raspberry Pi was originally created to help teach computer science in schools, but gained popularity for many other uses due to its low cost, compact size, and flexibility. It is now used in areas such as industrial automation, robotics, home automation, IoT devices, and hobbyist projects. 732ec68500

OpenHarmony Similar to HarmonyOS, the open-source distributed operating system is designed with a layered architecture, consisting of four layers from the bottom to the top: the kernel layer, system service layer, framework layer, and application layer. It is also an extensive collection of free software, which can be used as an operating system or in parts with other operating systems via Kernel Abstraction Layer subsystems. Hi3861 based HiSpark WiFi IoT development board released in October 2020 with OpenHarmony support alongside LiteOS. Raspberry Pi ported to OpenHarmony 3 OpenHarmony (OHOS, OH) is a family of open-source distributed operating systems based on HarmonyOS derived from LiteOS, donated the L0-L2 branch source code by Huawei to the OpenAtom Foundation 732ec68500

Orange Pi is also a main competitor of Raspberry Pi and their SBCs. 732ec68500 The board was discontinued on 19 June 2017.
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Orange Pi The first model of Orange Pi was released in 2014. kernel such as Android. Orange Pi is also a main competitor of Raspberry Pi and their SBCs. , Ltd. Thirty other Orange Pi is a series of cost effective single-board computers (SBC) designed and manufactured by Shenzhen Xunlong Software Co 732ec68500

Intel Galileo These development boards are sometimes called "Breakout boards". Intel released two versions of Galileo, referred to as Gen 1 and Gen 2. advanced IoT DevKit version is also available to enable complex IoT projects, adding for example support for OpenCV-Python. The Raspberry Pi, as well Intel Galileo is the first in a line of Arduino-certified development boards based on Intel x86 architecture and is designed for the maker and education communities 732ec68500

Pine64 The A64 was first funded through a Kickstarter Pine Store Limited, doing business as Pine64 (styled as PINE64), is a Hong Kong-based organization that designs, manufactures, and sells single-board computers, notebook computers, as well as smartwatch/smartphones. Its name was inspired by the mathematical constants π and e with a reference to 64-bit computing power. Pine A64, a single-board computer designed to compete with the popular Raspberry Pi in both power and price
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List of open-source mobile phones The main components to make an open mobile This is a list of mobile phones with open-source operating systems. The PiPhone, ZeroPhone and OURphone are similar, but based on the Raspberry Pi. schematics, focusing on education 732ec68500

.NET Gadgeteer mbed microcontroller Minibloq Netduino OOPic Parallax Propeller PICAXE Raspberry Pi Simplecortex Tinkerforge "Microsoft Gadgeteer home page". NET Gadgeteer is an open-source rapid-prototyping standard for building small electronic devices using the Microsoft. Archived from Microsoft. NET Micro Framework and Microsoft Visual Studio/Visual C# Express 732ec68500

OpenHarmony supports various devices running a mini system, such as printers, speakers, smartwatches, and other smart device with memory as small as 128 KB, or running a standard system with... 732ec68500

Raspberry Pi To commercialize the product and support its growing demand, the Foundation established a commercial entity, now known as Raspberry Pi Holdings. Raspberry Pi (/par/ PY) is a series of small single-board computers (SBCs) originally developed in the United Kingdom by the Raspberry Pi Foundation in Raspberry Pi (PY) is a series of small single-board computers (SBCs) originally developed in the United Kingdom by the Raspberry Pi Foundation in collaboration with Broadcom 732ec68500

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