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SIMATIC IOT2020

Be ahead of the curve in education

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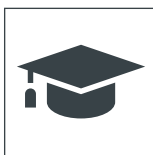
The open source platform for high-level language programming in education

Internet of Things (IoT)

The megatrends open source and programming in high-level languages are coming together with SIMATIC quality in the DIN rail-mounted SIMATIC IOT2020 for 24/7 operation with internal power supply for 9–36 V DC input voltage. No matter what flexible, holistic software development strategy you're using – Scrum, design thinking, agile software development – the SIMATIC IOT2020 is the right product for you. It supports your education or research projects in areas like cyber security, cloud technology, smart engineering, asset management, and mass customization.

Areas of application in education

Regardless of the major – electrical, automation or process engineering, computer science, machine building, mechatronics, robotics or embedded systems the IOT2020 is the right open platform for colleges/universities and vocational training schools for practicing new teaching techniques like Flipped classroom, Education 3.0 or Jigsaw.



“Be ahead of the curve and prepare yourself for the larger disruptive innovations taking place in education and industry with our new open source platform ecosystem.”



IOT200 with USB and Ethernet interface

Expandable hardware and software for disruptive projects

You'll benefit from the open, expandable hardware, Linux-based operating system (Yocto V2.1), programming languages and tools. So create fearlessly your lectures, laboratory work, Bachelor/Master thesis and research and development projects.

Hands-on experience for the complete course of study

The IOT200 enables students to get hands-on experience in the first years of their studies or in demanding projects i.e. in applications with sensor and control technologies, open and closed loop control and in high-level languages.

A PROFINET-driver to connect to PROFINET IO-devices is in preparation.

Powerful combination of hardware/software and open standards

The IOT200 is built around the Intel Quark® x1000 CPU, the open source Yocto Linux operating system and the Intel System Studio IoT Edition for implementing projects in C/C++ Code in Eclipse.

Additional languages like Python, Java, Json, Node.js/Node-RED and others can be installed.

Thanks to its onboard mPCIe interface, countless expansion modules like WLAN/Bluetooth are available in the market. Profit from the Arduino Uno R3-compatible interface and the Arduino shield ecosystem with its endless availability.

Cloud and more

Use open standards like AMQP and MQTT to connect to SQLite3 databases or cloud platforms like Microsoft Azure and others. Build systems based on IEC 61499 standard, unleashing the next wave of innovation for your moonshot projects.

Required accessories:

- microSDHC card (8–32 GB)
- Power supply (9–24 V DC)

Support through IOT2000 forum



- The forum hosts documents for setting up IOT200 and getting started on first projects, applications, how-to videos and FAQs
- Download the Yocto Linux image
- Links i.e. to the development environment – Intel System Studio IoT Edition
- Structured as Small Private Online Courses (SPOCS)

Please actively use our forum:

[siemens.com/iot2000-forum](https://www.siemens.com/iot2000-forum)

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

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Published by
Siemens AG 2017
Digital Factory Division
P.O. Box 48 48
90026 Nuremberg, Germany
Article No.: DFFA-B10254-00-7600
Printed in Germany
Dispo 06321; B.2112.W2.SCE.014

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Siemens Partner
for automation and drive technology



Ordering information

IOT200 can only be ordered at RS Components:
Stock No.: 124-4037; RS Website Search Term: 1244037

[rs-online.com](https://www.rs-online.com)

[rs-online.com/designspark/simatic-iot200](https://www.rs-online.com/designspark/simatic-iot200)