SIEMENS

Product data sheet

SIMATIC IOT2020

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The SIMATIC IOT2020 is the reliable and open platform for developing and easily realizing innovative ideas in the field of Internet of Things. With its openness and various expansion possibilities creative applications can be implemented fast and cost-efficient - and this with a rugged hardware designed for the reliable 24/7 operation even in harsh conditions.

A broad community and available application examples support the easy entry into the world of automation. The SIMATIC IOT2020 is therefore the ideal platform for education.

Openness for industrial IoT applications

• Programing in high-level languages

• Realization of flexible communication solutions with various protocols, from Modbus RTU, OPC UA up to cloud protocols like MQTT/AMQP

• Benefit from open-source application examples and libraries

• Yocto Linux support

Connection flexibility

• Various on-board interfaces

• Easy and very flexible expansion possibilities with Arduino shields and mPCIe cards

More information

Please find further information in the Internet at:
http://siemens.de/sce

Technical specifications	SIMATIC IOT2020
General features	
Processor	Intel Quark x1000
Drives	
Mass data storage	microSD Card slot; SDHC up to 32 GB; microSD Card not included in scope of supply
Memory	
RAM / Flash / SRAM	512 MB / 8 MB / 256 kB
Interfaces	
Serial interfaces	--
USB interfaces	1x USB controller + 1x device
Programming interfaces	FTDI-interface (system console); TTL-232R-3V3 (internally accessible)
Ethernet interfaces	1x 10/100 Ethernet RJ45
Graphics interfaces	--
Expansion slots	
• Arduino expansion / Pinout • mPCIe expansions	• Arduino Uno R3 compatible • 1x mPCIe Full Size
Operating systems	
Firmware	Flash Firmware pre-installed
Operating system	Yocto V2.1 (Krogoth) based Linux
Operating system – included drivers	Ethernet Serial interfaces Quark related features (SRAM, WD…) MRAA (easy access of ARDUINO shield)
Power supply	
Type of voltage	24 V DC
Dimensions	
Length / Width / Height	144 x 90 x 53 (mm)