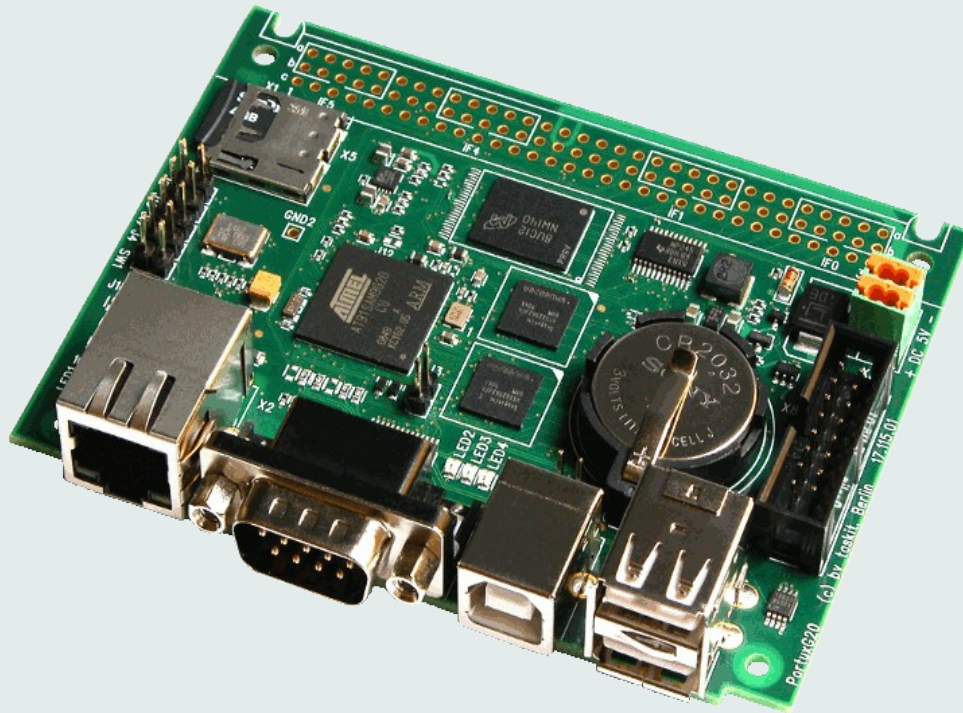


PortuxG20

Embedded ARM9 single-board computer



Powerful SBC with flexible PXB

- 400 MHz ARM926EJ-S processor core
- 64 MB SDRAM and 128 MB NAND Flash
- Interfaces: Ethernet, USART, USB, Micro SD, SPI
- Flexible Portux Extension Bus (PXB)
- Linux and U-Boot boot loader pre-installed
- Power management functions

Product overview

The PortuxG20 single-board computer in the form of a half Eurocard can be used, for example, in measurement, regulation and control technology.

PortuxG20 supports many standard interfaces and the Portux Extension Bus (PXB) enables connecting additional peripherals via the 96-pin connector.

The Linux operating system and the "U-Boot" boot loader are pre-installed.

The Starter kit PortuxG20 allows a comfortable and user-friendly way to start developing or implementing applications on the PortuxG20.

More information is available at www.taskit.de.

Produkt bersicht

Der PortuxG20 Single-board Computer im Format einer halben Europakarte findet seinen Einsatz z.B. in der Mess-, Steuer- und Regeltechnik.

Unterstützt werden viele gängige Schnittstellen und der Portux Extension Bus (PXB) ermöglicht über die 96-polige VG-Leiste das Anbinden von weiterer Peripherie.

Das Betriebssystem Linux und der Bootloader "U-Boot" sind bereits vorinstalliert.

Einen komfortablen und benutzerfreundlichen Einstieg in die Anwendungsentwicklung oder -implementierung ermöglicht das Starterkit PortuxG20.

Weitere Informationen haben wir auf www.taskit.de bereitgestellt.

Technical summary

CPU

- * Atmel® AT91SAM9G20 with ARM926EJ-S core
- * 400 MHz

Memory

- * 64 MB SDRAM (optional up to 128 MB)
- * 128 MB NAND Flash (optional up to 512 MB)
- * 128 Byte EEPROM

Interfaces (onboard)

- * 10/100 Ethernet MAC
- * USB 2.0 Full Speed (2 x host, 1 x device)
- * one serial interface (USART / UART)
- * Micro SD-Card slot, JTAG, DBGU

Interfaces (PXB)

- * SSC, SPI, TWI (I²C compatible)
- * up to 64 digital I/O ports
- * 16-bit Parallel Bus
- * up to 5 serial Interfaces (USART / UART)
- * External SD-Card Interface
- * 4-channel 10-bit ADC

Operating system

- * Linux (kernel version 2.6.x), "U-Boot" boot loader
- * Java Virtual Machine (JavaVM)

Miscellaneous

- * Battery backed-up Real-Time Clock (RTC)
- * Serial number, temperature sensor

Power management

- * Operating voltage: 5 V
- * Power consumption (normal): 150 to 170 mA at 5 V

Board dimensions

- * 100 x 75 x 17 mm

Order information (article no. and name)

543318	Premium Starter kit PortuxG20	134700	IF232/9-DIR
543309	Standard Starter kit PortuxG20	515701	10-pin cable for IF-Modules
543320	PortuxG20 (128F/64R)	542485	Option Software-CD
543319	Option Battery for RTC	109112	Premiumsupport for 6 months

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