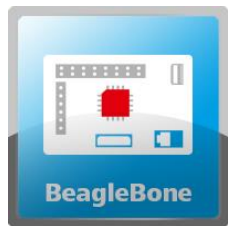


Data Sheet CODESYS Control for BeagleBone SL



The product "CODESYS Control for BeagleBone SL" extends the Linux environment of a BeagleBone Black with the functions of a CODESYS programmable PLC.

Product description

The CODESYS runtime environment included in the product is customized especially for the Beaglebone Black and community-supported hardware. With a CODESYS single device license (SL), end users can implement a PLC device permanently and use functions of the freely available CODESYS Development System for design engineering these in compliance with IEC 61131-3.

Range of functions

The software package includes an extension for the CODESYS development environment for linking to an update mechanism to install the runtime environment on the BeagleBone Black without any Linux knowledge. The CODESYS Runtime component on the BeagleBone Black is installed as a Debian package directly from within the CODESYS Development System. The supplied examples supplement the software package with useful applications for getting started.

Usability

- With the integrated CODESYS wink mechanism, the hardware can be assigned uniquely to an existing gateway connection by blinking the LED.

Interfaces

- The integrated CODESYS OPC UA Server takes over the data exchange between CODESYS Control for BeagleBone SL and other OPC UA capable controllers.
- The available GPIO and analog inputs are supported.

Visualization

- The CODESYS WebVisu product is included in the delivery of the runtime package.

Fieldbus support

- With the delivery of the runtime supported fieldbuses:

Product	MODBUS-TCP Master / Slave	MODBUS-RTU Master / Slave	EtherNet/IP Scanner / Adapter	PROFINET Controller / Device	EtherCAT Master	CANopen Master/Slave	J1939
BeagleBone Black	✓	✓	✓	✓	✓	✓	✓

Product options

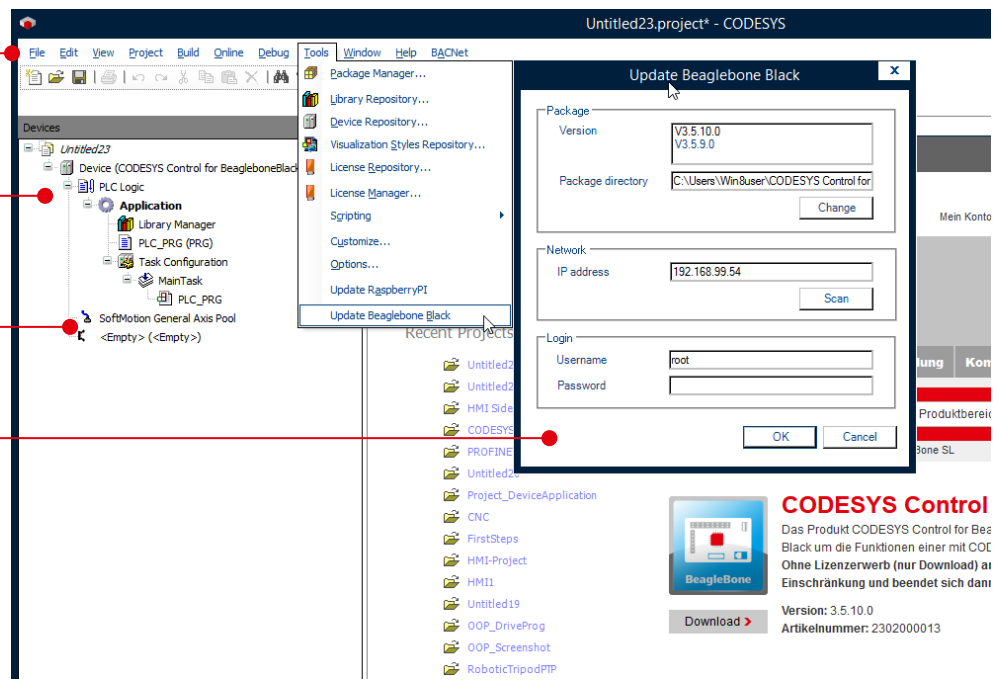
- CODESYS BACnet SL and CODESYS SoftMotion CNC+Robotics SL can be found in the CODESYS Store and then post-licensed for use in CODESYS Control for BeagleBone SL.

CODESYS Development System

Project tree of the IEC 61131-3 application

Supported interfaces of BeagleBone Black

Tools extended with an update manager



Screenshot: Application and update tool for working with BeagleBone Black

General information



Manufacturer	3S-Smart Software Solutions GmbH Memminger Strasse 151 87439 Kempten Germany
Support	No support included. Please visit https://support.codesys.com .
Item	CODESYS Control for BeagleBone SL
Item number	2302000013
Sales	CODESYS Store store.codesys.com
Included in delivery	<ul style="list-style-type: none"> ▪ Runtime package ▪ License key

System requirements and restrictions

Programming system	CODESYS Development System V3.5.10.0 or later
Runtime system	-
Supported platforms and devices	BeagleBone Black, Version C and later (https://beagleboard.org/black) Note: Use the "Device Reader" project for locating the functions supported by the PLC. The "Device Reader" project is available in the CODESYS Store free of charge.
Additional requirements	CANopen can only be used with an additional CAN-CAPE.
Restrictions	CODESYS WebVisu: Port 9090
Licensing	<ul style="list-style-type: none"> ▪ Without license, the product is executable as a demo version for two hours at a time; with manual controller restart. ▪ License activation of the full version is completed from the integrated CODESYS soft container ▪ Optional: CODESYS Runtime Key
Required accessories	Optional: CODESYS Runtime Key