Platform MX6
Software option S116
CODESYS KNX-IP

1   Identification

Identification	
Option ID	S116
Order number	S-05000316-0000
Short name	CODESYS KNX-IP
Brief description	With software option/license it is possible to operate the controller in a KNXnet/IP network
Revision ID document	V1.0

2   System requirements and restrictions

System requirements and restrictions	
Supported platforms and devices	Berghof PLC devices of the MX6 platform (e.g.: MCs, CCs, DCs). Additional information regarding availability and compatibility can be found in options section of the product catalog.
Firmware	MX6-PLC from Version 1.22.4, CODESYS from 3.5 SP14 Patch 4
Additional requirements	— CODESYS IDE >= 3.5.14.40 — ETS5 and Berghof DCA for ETS5
Restrictions	---

3 Product description

With this interface/option it is possible for the controller to access all KNX EA's as a KNX participant.
The KNX-IP interface is based on a standard Ethernet interface and the software KNX Stack from 3S.
The KNX-IP interface is fully integrated into the CODESYS development environment. The installation of an additional hardware is therefore not necessary.

To use the function, the integrated data channels of the CODESYS controller are exported in an XML format, imported in the ETS5, integrated from there into an overall configuration and the required data ("associations") are transferred to the CODESYS runtime system. The input and output data thus integrated can be provided with an intelligent logic function in CODESYS. At the same time, users can transfer the data to other bus protocols, such as BACnet or OPC UA. With the Industry 4.0 features of the tool, building automation can thus be networked with SmartFactory or SmartEnergy systems.

CODESYS KNX consists of a configurator for I/O channels, a KNXnet/IP protocol stack in the form of a runtime system component, and a data exchange function with the ETS5 configuration system. This allows any CODESYS-compatible device to be extended so that it functions as a KNX device and can communicate with KNX E/As.

For full documentation please check the CODESYS Online help under:
https://help.codesys.com/webapp/_knx_f_configurator;product=codesys_knx;version=4.0.0.0

Link: "How To" for CODESYS: https://faq.codesys.com/display/CDSFAQ/KNX%3A+Integrating+a+CODESYS+Controller

4 Technical data

Technical data	
Transmision medium	Ethernet 100 Base TX/FX

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