

Color:

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WAGO GmbH & Co. KG

Hansastra. 27

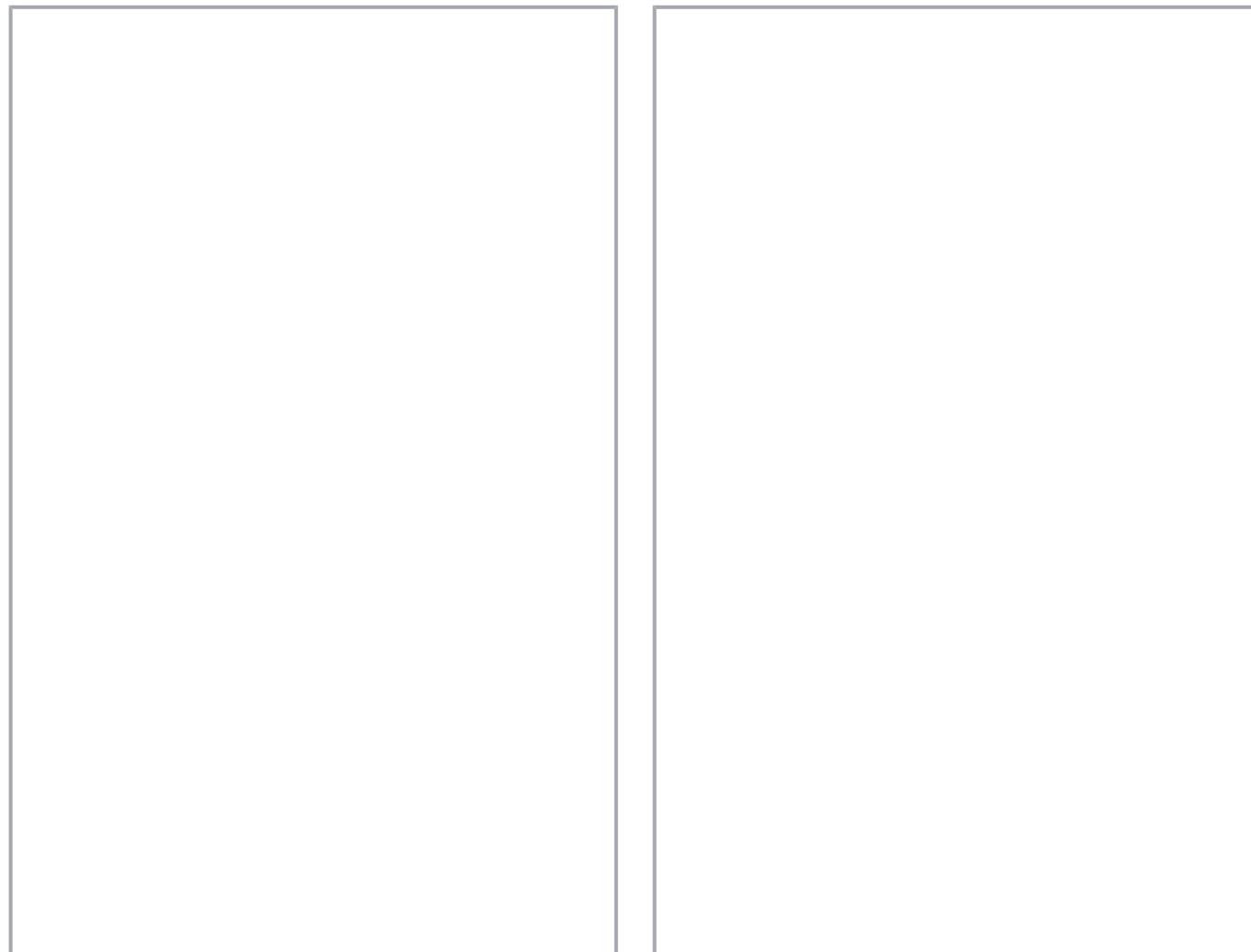
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Item description

The 753-646 KNX/EIB/TP1 Module connects to a KNX/EIB/TP1 network. This module supports two different functions:

1. Device mode: With this module, all programmable fieldbus controllers relevant for building automation can be connected to a KNX/TP1 network. In a KNX network, the module appears as a standard KNX device and is linked via ETS 3 Professional Commissioning Tool. The module supports a maximum of 253 communication objects with any DPTs, 254 group addresses and 254 associations. The application is programmed via WAGO-I/O-PRO Software. An ETS plug-in, which is included in the WAGO product database, is required so that the data from the application program can be allocated to the group addresses.

2. Router mode: When the 750-849 or 750-889 KNX IP Controller is connected to the first 753-646 KNX/EIB/TP1 Module, the device can be used as a KNXnet/IP router. The module is switched to the router mode automatically. An application program is not required for operation in router mode. Additional modules that are connected to a KNX IP Controller are addressed in device mode by the application.

WAGO's 753 Series Pluggable Connector with internally bridged contacts (3/7 and 4/8) is part of the delivery.

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Both an external KNX power supply and ETS Professional Software are required to operate the KNX/EIB/TP1 Module.

Data

Technical data

Device specification	KNX/TP1 bus specification: 1.0
Device-specific	Number of group addresses: 254; Number of communication objects: 253; Number of associations: 254
Current consumption (typ.)	5 mA (KNX)
Baud rate	9.6 kBd (KNX)
Data width	24 bytes
Power supply	KNX: via KNX power supply unit
Commissioning	WAGO-I/O-PROV2.3
Advanced diagnostics	via FbKNX_Master_646 function block (device mode)
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	25 mA
Isolation	2.5 kV (rms)
Indicators	LED (A, C, E, H) green: router mode, data transfer, local bus, device mode, KNX bus voltage; LED (B, F, G) red: KNX programming mode, buffer overflow, internal error; LED (D) yellow: KNX data transfer

Connection data

Connection technology: inputs/outputs	8 x CAGE CLAMP®
Connection type 1	Inputs/Outputs
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
Connection point (other) designation	Programming button; Bridge 2/6

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69 mm / 2.717 inches
Depth from upper-edge of DIN-rail	61.8 mm / 2.433 inches

Mechanical Data

Mounting type	DIN-35 rail
Pluggable connector	Pluggable

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Material Data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.044 MJ
Weight	55.9 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-3, marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-05
eCl@ss 9.0	27-24-26-05
ETIM 8.0	EC001601
ETIM 7.0	EC001601
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE

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GTIN	4045454778033
Customs tariff number	85389099990

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	c4a73850-53c4-4d53-8fe0-f75ac132bdbf
SCIP notification number (Belgium)	5275670d-2bae-4c07-9d73-57cef6482cac
SCIP notification number (Bulgaria)	94a656e9-db64-4976-9e8b-110852da7f08
SCIP notification number (Czech Republic)	e0c806f4-4fff-428d-b625-3e4545fd06bf
SCIP notification number (Denmark)	486acf93-c004-4553-99b7-0067b7741d41
SCIP notification number (Finland)	bd569f0c-cfc2-46e3-85c8-4d65e22ad594
SCIP notification number (France)	aa90f140-7c3a-413e-9eba-c0faaf9cbcea
SCIP notification number (Germany)	1143e9db-6937-490a-a5a0-8dff86fbbe66
SCIP notification number (Hungary)	c4edfb6-7c5d-4db0-9515-f5f7ebe382e7
SCIP notification number (Italy)	97801e87-e097-4c88-b142-b43d0a13ddff
SCIP notification number (Netherlands)	c4a4ffaa-c5b8-4074-bc50-c805f00ed673
SCIP notification number (Poland)	663ff08d-6c29-44cc-bf3a-6a1a55d773c7
SCIP notification number (Romania)	d7daaa34-ef2a-49e9-b37b-811ffb0142e8
SCIP notification number (Sweden)	5f5a5cde-0874-4869-883b-e7e523237bbe

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
EAC	Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087 /19
KC	National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-

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MSM750

UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1
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Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
ABS American Bureau of Shipping	-		22-2219060
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-		1104
BV Bureau Veritas S.A.	-		30389/C0 BV
DNV DNV GL SE	DNV-CG-0339,Aug.2021		TAA0000194
LR Lloyds Register EMEA	-		LR22180952TA
PRS Polski Rejestr Statków	-		TE/2236/880590 /19
RINA RINA Germany GmbH	-		ELE343521XG001

Optional accessories**Marking accessories**

Marker carrier

Item no.: 750-103 Group marker carrier	www.wago.com/750-103
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Marker

Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/2009-145/000-006
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Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-145
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Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	www.wago.com/2009-145/000-002
Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/2009-145/000-007
Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	www.wago.com/2009-145/000-005
Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/2009-145/000-012
Item no.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-145/000-023
Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/2009-145/000-024
Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	www.wago.com/248-501/000-006
Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	www.wago.com/248-501/000-007
Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/248-501/000-002
Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	www.wago.com/248-501/000-012
Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/248-501
Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	www.wago.com/248-501/000-017
Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	www.wago.com/248-501/000-005
Item no.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	www.wago.com/248-501/000-024

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Item no.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/248-501](http://www.wago.com/248-501/000-023)[/000-023](http://www.wago.com/248-501/000-023)**Group marker carrier****Item no.: 750-107**

Group marker carrier

www.wago.com/750-107**Carrier rail****Mounting accessories****Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

www.wago.com/210-197**Item no.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

www.wago.com/210-198**Item no.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

www.wago.com/210-504**Item no.: 210-505**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

www.wago.com/210-505**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

www.wago.com/210-506**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

www.wago.com/210-508**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

www.wago.com/210-113**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

www.wago.com/210-118**Item no.: 210-112**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm"; silver-colored

www.wago.com/210-112**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

www.wago.com/210-114**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm"; silver-colored

www.wago.com/210-115**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

www.wago.com/210-196**System housing****System enclosure**

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Item no.: 850-814/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate	www.wago.com/850-814/002-000
Item no.: 850-815/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate	www.wago.com/850-815/002-000
Item no.: 850-816/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate	www.wago.com/850-816/002-000
Item no.: 850-817/002-000 IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate	www.wago.com/850-817/002-000
Item no.: 850-825 IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20	www.wago.com/850-825
Item no.: 850-826 IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-826
Item no.: 850-827 IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-827
Item no.: 850-827/002-000 IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-827/002-000
Item no.: 850-826/002-000 IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-826/002-000
Item no.: 850-828/002-000 IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	www.wago.com/850-828/002-000
Item no.: 850-828 IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip	www.wago.com/850-828
Item no.: 850-834 IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20	www.wago.com/850-834
Item no.: 850-835 IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip	www.wago.com/850-835
Item no.: 850-836 IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip	www.wago.com/850-836
Shield termination Shield clamping saddles	

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Item no.: 790-116	www.wago.com/790-116
Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm	

Item no.: 790-124	www.wago.com/790-124
Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm	

Item no.: 790-108	www.wago.com/790-108
Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm	

Item no.: 790-140	www.wago.com/790-140
Shield clamping saddle; diameter of compatible conductor	

Item no.: 790-216	www.wago.com/790-216
Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm	

Item no.: 790-220	www.wago.com/790-220
Shield clamping saddle; 30 mm wide; 6 ... 20 mm	

Item no.: 790-208	www.wago.com/790-208
Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm	

Pluggable connector

Coding

Item no.: 753-150	www.wago.com/753-150
753 Series coding elements	

Downloads

Documentation

Manual

System Manual WAGO I/O System 750/753	V 3.3.3	pdf	Download
Decentralized Automation Technology	2023 年8月29日	8.7 MB	

Product Manual KNX/EIB/TP1 Module	V 2.0.0	pdf	Download
	2022 年12月15日	3.6 MB	

Product Manual WAGO ETS Plug-in (Product Data Base) for configuring WAGO KNX devices	V 3.0.1	pdf	Download
	2.9 MB		

System Manual Series 750/753 Online HTML	URL	Download

Bid Text

753-646 X81 - Datei	2019 年2月19日	xml	Download
	6.6 kB		

753-646	2018 年6月28日	doc	Download

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doc - Datei

31.2 kB

ausschreiben.de 753-646

URL

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System Description

Overview on WAGO-I/O-SYSTEM 750 approvals

pdf

223.5 kB

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750/753 Series I/O-System – General Product Information

pdf

976.2 kB

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Additional Information

Disposal and Recycling

V 1.1.0

pdf

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Electrical and electronic equipment, Batteries, Packaging

2022 年8月18日

2.2 MB

Application Notes**Application Note CoDeSys 2.3**

KNX Function Macros

V 2020-05-12

zip

Download

Based on the library KNX_02.lib WAGO provides different function macros out of the building automation.

2020 年5月12日

120.6 MB

Application Note Library KNX_02.lib

09.11.2016

zip

Download

This quick start guide outlines the necessary steps for creating an application with the KNX/EIB/TP1 module.

2016 年11月9日

726.8 kB

Application Note ThebenKNX_DALI

25.08.2016

zip

Download

Connecting the Theben thePrema P360 KNX Presence Detector to the WAGO I/O-System

2016 年8月25日

745.2 kB

Application Note KNX StarterKit3

13.11.2014

zip

Download

This Application Note includes the commissioning instructions for the KNX IP StarterKit 3.

2014 年11月13日

30.9 MB

Application Note e!COCKPIT

eCOCKPIT Application Note WagoAppKNX

1.0.3

pdf

Download

This quick start guide outlines the necessary steps for creating an application with the KNX/EIB/TP1 module.

2021 年12月6日

1.1 MB

Libraries

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Library

Libraries for Building Automation CODESYS 2.3	2023-01-16 2023 年1月16日	zip 44.8 MB	Download
<p>This zip file contains WAGO I / O PRO libraries for building automation. Blocks are available for the following applications:</p> <ul style="list-style-type: none"> - DALI - DALI sensors - DALI Color Control - DALI Emergency Lighting - Enocean - SMI - HVAC / HVAC functions - General building functions such as blinds, dimmers, impulse switches - Scheduler - KNX function blocks - BACnet - WINSTA blind box - DMX - Elsner weather station - M-Bus, MBus - MP-Bus, MPBus - Romutec handset - Thermokon Thanos room thermostat - Thermokon WRF04 room thermostat - Thermokon WRF06 room thermostat - Thermokon WRF07 room thermostat - Thermokon WRF08 room thermostat - 3-phase Power measuring module 750-493 - LON - Grundfos pumps with GENIBus interface - EAP Modbus® room control units - Conversion of color formats - "robutecheasy" modules - Schüco TipTronic group control units - Weather station Thies 			

e!COCKPIT libraries

e!COCKPIT Library Description WagoAppKNX	1.0.4.7 2021 年8月6日	pdf 3.2 MB	Download
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Engineering-Software

Product database

WAGO product database for KNX module 753-646	2.0.367.581 2016 年11月26日	zip 2.3 MB	Download
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WAGO product database for KNX Router 750-889 / 750-849 + 753-646	2.0.373.598 2016 年11月26日	zip 41.4 kB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 753-646	URL	Download
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CAE data

WSCAD Universe 753-646	URL	Download
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ZUKEN Portal 753-646	URL	Download
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EPLAN Data Portal 753-646	URL	Download
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Environmental Product Compliance

[Compliance Search](#)

Environmental Product Compliance 753-646

[URL](#)

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KNX/EIB/TP1 Interface

Installation Notes

Product family

WAGO I/O System 750/753

[Show all products from the family](#)

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