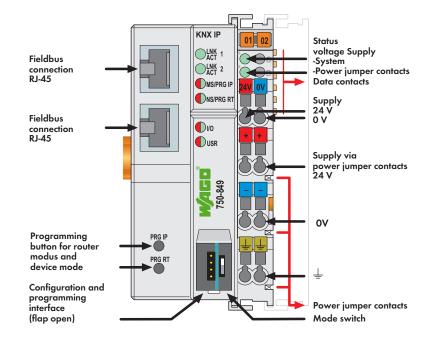
## PLC - KNX IP Programmable Fieldbus Controller

32-bit CPU, multitasking







This controller can contain up to two logical KNX devices simultaneously.

1. In conjunction with the WAGO-I/O-SYSTEM, the KNX IP PLC is used as an application controller within KNX IP networks. The PLC supports all digital, analog and specialty modules found within the 750/753 Series.

The controller is capable of 10/100 Mbit/s data rates and is programmable in activation of the following series of the followi

cordance with IEC 61131-3. KNX objects of any type (EIS/DPT) can be created using the programming tool. Libraries including ready-made function blocks are readily available on the WAGO Web site for programming. The controller supports a maximum of 253 communication objects, 254 group addresses and 254 associa-

Supported DPTs: All (acc. to KNX standard 03\_07\_02 Datapoint Types V1.0).

2. Combined with the KNX/EIB/TP1 module, the 750-849 KNX IP PLC can be operated as a router on an IP backbone (ETHERNET). No IEC application is required

Both devices are commissioned and configured in ETS3/4 using the WAGO product database. The software includes a plug-in that automatically installs and opens for configuration.

The KNX IP PLC features an integrated 2-port 10/100 Mbit/s switch and allows easy creation of a line structure without requiring additional network components. The maximum number of controllers that can be wired in series is 20.

The maximum number of controllers that can be wired in series is 20. An internal server is available for Web-based applications. The controller provides 512 KB program memory, 256 KB data memory and 24 KB retain memory. It has a battery-backed RTC and 32-bit multitasking CPU. The controller offers many different application protocols for control tasks (MODBUS, KNX-net/IP) or for system management and diagnostics (HTTP, BootP, DHCP, DNS, Auto-IP, SNTP, FTP, SNMP and SMTP).

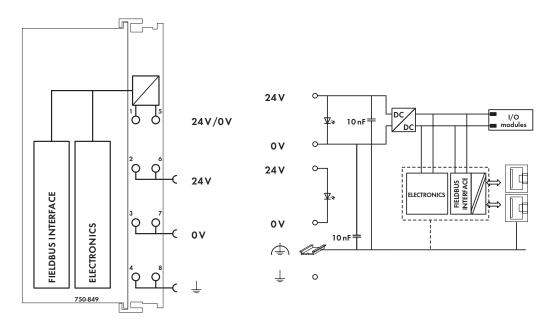
The number of KNX/EIB/TP1 modules (750-646) that are supported by the KNX IP

PLC does not depend on the application.

Description		Item No.	Pack. Unit
KNX IP Controller		750-849	1
Accessories		Item No.	Pack. Unit
WAGO ETS3/4 plug-in		see page 93	
WAGO-I/O-PRO V2.3, RS-232 kit		759-333	1
Miniature WSB Q	uick marking syster	n 248-501	5
	plain with marking	see pages 352 353	5
Approvals		Also see "Approvals Overview'	' in Section
KNX certified		IP controller: 61/8316/08;	
		IP router: 61/8317/08	
Conformity marking		C€	
Shipbuilding		ABS, DNV, GL, KR	
.®≖ UL 508			

No. of controllers	limited by network topology
Transmission medium	S-UTP 100 Ω Cat 5
Max. length of fieldbus segment	100 m limited by IEEE 802.3
Max. length of network	≤ 2000 m; max. 20 controllers in series
Baud rate	10/100 Mbit/s
Buscoupler connection	2 x RJ-45 (linked via 2-port switch)
Protocols	KNXnet/IP, MODBUS/TCP (UDP), HTTF
	BootP, DHCP, DNS, AutoIP, SNTP, FTP,
	SNMP V3, SMTP
Programming	WAGO-I/O-PRO V2.3
IEC 61131-3	IL, LD, FBD (CFC), ST, FC
KNX-specific	
KNX/TP1 bus specification	1.0
Commissioning (KNX side)	with ETS3/4 plug-in,
	2 programming buttons
Device mode:	
Number of communication objects	253
Number of group addresses	254
Number of associations	254
Supported DPTs	All ( *acc. to KNX Specification
	03_07_02 Data Point Types V 1.0)
Max. number of logical KNX devices,	
simultaneous	2;
	1. device,
	2. router (with 1. KNX/EIB/TP1 module)





Technical Data	
Number of I/O modules	64
with bus extension	250
Configuration	via PC
Program memory	512 Kbytes
Data memory	256 Kbytes
Non-volatile memory (retain)	24 Kbytes (16 Kbytes retain, 8 Kbytes flag)
Power supply	24 V DC (-25 % +30 %)
Max. input current (24 V)	500 mA
Efficiency of the power supply	87 %
Internal current consumption (5 V)	300 mA
Total current for I/O modules (5 V)	1700 mA
Isolation	500 V system/supply
Voltage via power jumper contacts	24 V DC (-25 % +30 %)
Current via power jumper contacts (max.)	10 A DC
Fieldbus (Modbus/TCP):	
Max. input process image	2 Kbytes
Max. output process image	2 Kbytes
Max. input variables	512 bytes
Max. output variables	512 bytes

General Specifications	
Operating temperature	0 °C +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> / AWG 28 14
Stripped lengths	8 9 mm / 0.33 in
Dimensions (mm) W x H x L	51 x 65 x 100
	Height from upper-edge of DIN 35 rail
Weight	190 g
Storage temperature	-25 °C +85 °C
Relative air humidity (no condensation)	95 %
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27
Degree of protection	IP20
EMC: <b>C</b> € - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: <b>C</b> € - emission of interference	acc. to EN 61000-6-3 (2007)
EMC: marine applications	
- immunity to interference	acc. to Germanischer Lloyd (2003)
EMC: marine applications	
- emission of interference	acc. to Germanischer Lloyd (2003)