THE KNX IP CONTROLLER

Taking Proven Technology to the Next Level

WAGO®

THE WAGO KNX PORTFOLIO

KNX IP Controller — High Performance

The user-programmable KNX IP Controller is the multitalented device for building automation with a broad array of capabilities such as, connecting, controlling, regulating and monitoring all KNX devices from separate building systems. When paired with WAGO-I/O-SYSTEM 750 I/O modules, you can easily integrate other sensors, actuators and sub-buses (e.g., DALI or EnOcean) into the control system.

The KNX IP Controller is characterized by its extremely powerful processor. The large memory provides reserves for complex control tasks. If you need additional storage for complex Web visualizations or trend log data, for example, the on-board SD card slot can be used to save data to an SD card. The SD card is also ideal for "backup & restore" functions.
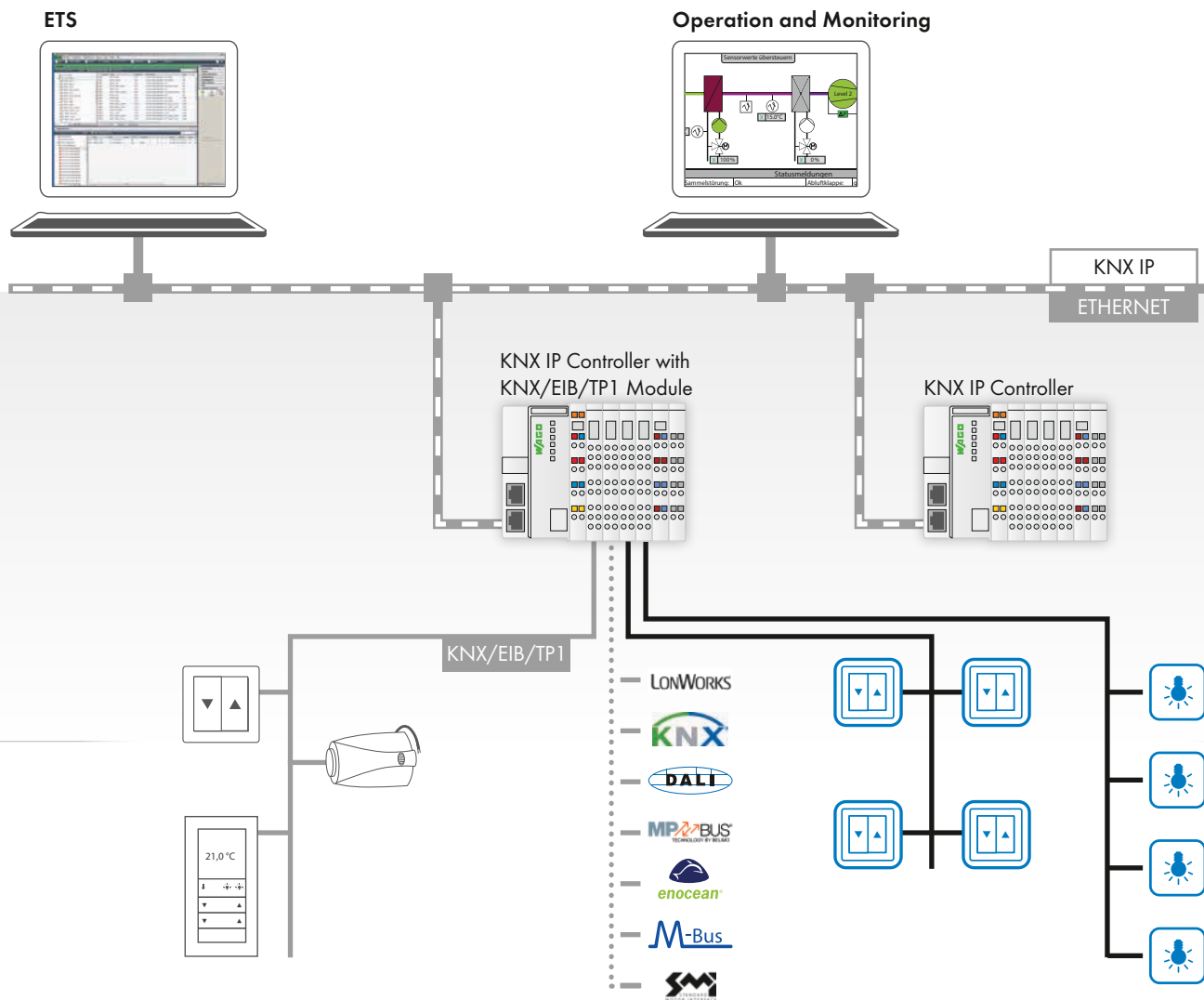
The controller can be integrated into an ETHERNET line topology and connected to a KNX IP network via its integrated 2-port switch.

- **Freely Programmable ETHERNET Controller with KNX IP protocol**
- **Combinable with KNX/EIB/TP1 Module and other 750/753 Series I/O Modules**
- **Powerful hardware with SD card slot**

ORDER INFORMATION

Item Description	Item Number
KNX IP Controller	750-889
KNX/EIB/TP1 Module	753-646
ETS plug-in	Download

THE WAGO KNX CONCEPT

ETS

Operation and Monitoring

KNX IP

ETHERNET

KNX IP Controller with
KNX/EIB/TP1 Module

KNX IP Controller

KNX/EIB/TP1

21,0 °C

LONWORKS

KNX

DALI

MP BUS
TECHNOLOGY BY BELIMO

enocean

M-Bus

SMI
STANDARD
MOTOR INTERFACE

For More Functionality and Convenience

KNX is a uniform, manufacturer-independent communication protocol for intelligently networking various building automation functions. KNX is used to plan and implement energy-efficient solutions, while incorporating greater functionality and convenience into buildings.

With the KNX IP Controller and the KNX/EIB/TP1 Module, WAGO provides an innovative and future-proof solution to building automation.

Connectivity to conventional sensors and actuators, as well as complex connections to DALI, EnOcean and other protocols, is cost-effectively unified on the WAGO KNX IP Controller.
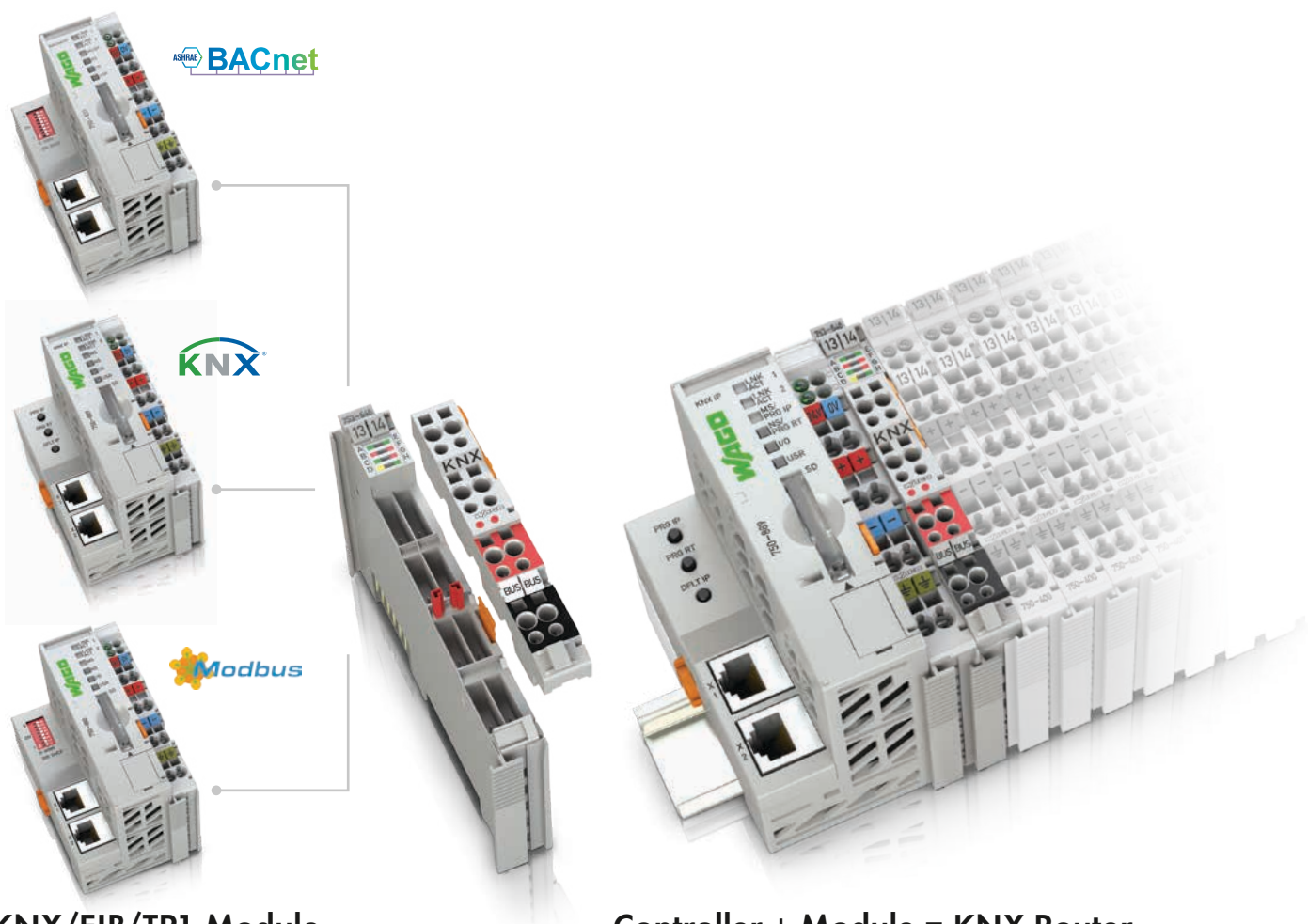
The WAGO KNX/EIB/TP1 Module connects to TP1 networks.

ETHERNET as a medium and KNX IP as a transmission protocol enable high-speed communication between devices, while providing seamless integration into existing infrastructures.

ADDITIONAL INFORMATION

Continually updated product information and references are available on the WAGO website: **www.wago.com/KNX**.

Go to "Service > Downloads" at **www.wago.com** to obtain the latest documents, data sheets and application notes.

KNX/EIB/TP1 Module — The Flexible Interface

The KNX/EIB/TP1 Module allows KNX 2-wire networks to be integrated into the WAGO-I/O-SYSTEM. This module can be combined with other I/O or bus modules that are connected to the controller. The KNX/EIB/TP1 Module operates as a standard KNX bus device within the KNX network and is integrated into the network via ETS software.

- **Interface module for integrating KNX/EIB/TP1 networks into the WAGO-I/O-SYSTEM**
- **Combinable with all building-related WAGO controllers (e.g., BACnet)**

Controller + Module = KNX Router

Together, the KNX IP Controller and the KNX/EIB/TP1 Module serve as the KNXnet IP Router, which connects traditional TP1 networks to ETHERNET. This considerably increases the transmission speed within a KNX network. It also enables a high level of data traffic on the backbone, preventing a bottleneck to the superimposed visualization system. The KNX IP Router also acts as a network interface for the ETS software for configuration and parameter setting. The KNX IP Router also includes the capabilities of the KNX IP Controller.

- **KNX IP Router consists of a KNX IP Controller and KNX/EIB/TP1 Module**
- **ETHERNET access to TP1 network for ETS or visualization**

KNX SOFTWARE

Efficient Project Processing and Streamlined Workflow
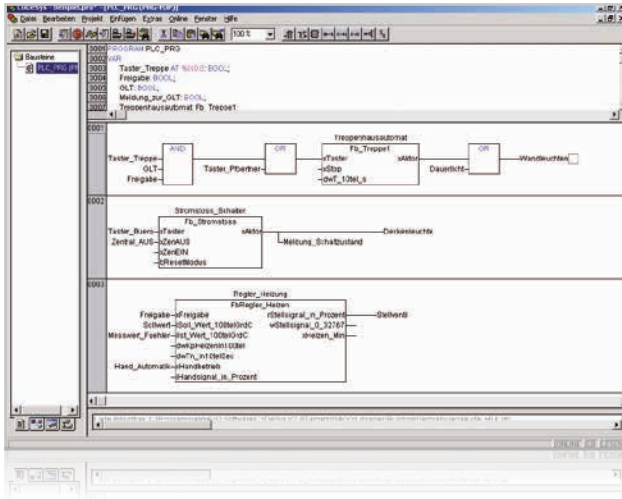
1. Creating application programs via WAGO-I/O-*PRO*

The WAGO-I/O-*PRO* software allows you to create application programs on the programmable KNX IP Controller. In addition to PLC programming, you can also determine the functionality of the KNX interface. Comprehensive libraries for various applications are available for efficient programming.

- Function blocks for building automation
- Function blocks for KNX application
- Export of configuration data to ETS
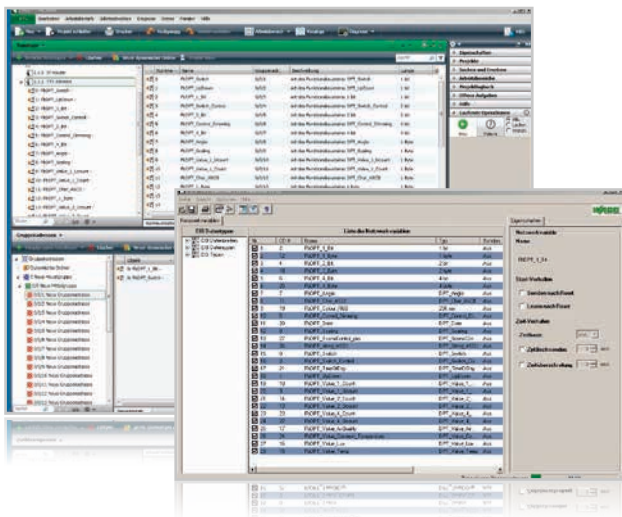
2. KNX device configuration via WAGO ETS plug-in

Configuring and commissioning the KNX network is performed using the KNX Engineering Tool Software (ETS). Importing the configuration data for the KNX interface, which was pre-defined in CODESYS, is performed via WAGO ETS plug-in. The intuitive graphical interface supports you in the selection and parameterization of the required KNX objects.

- ETS plug-ins for controller, module and router
- Import of CODESYS configuration data for the KNX interface
- Selection and parameterization of KNX objects
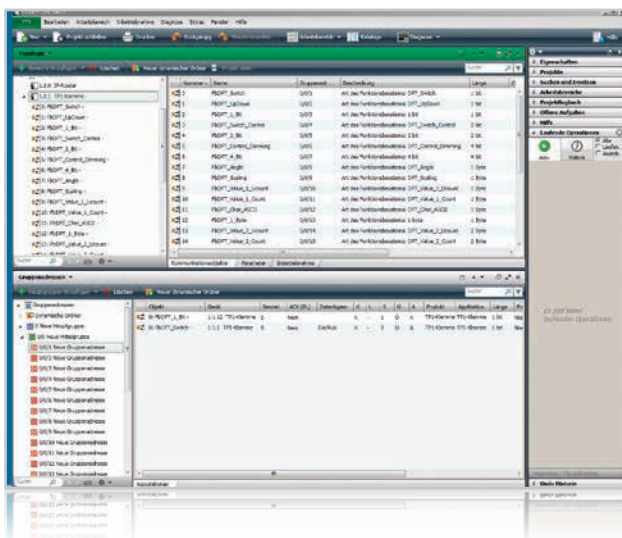
3. Program and parameter download via ETS

As the last step, functional relationships can be defined between the various KNX devices. For this purpose, KNX objects are linked with group addresses via ETS.

- Linking objects with group addresses
- Addressing KNX devices
- Downloading applications to the KNX devices

WE!
INNOVATE!