

AUTOMATION



WAGO I/O - IPC

- PLC Control with PC features

WAGO®
INNOVATIVE CONNECTIONS

PLC Control... PC Features...

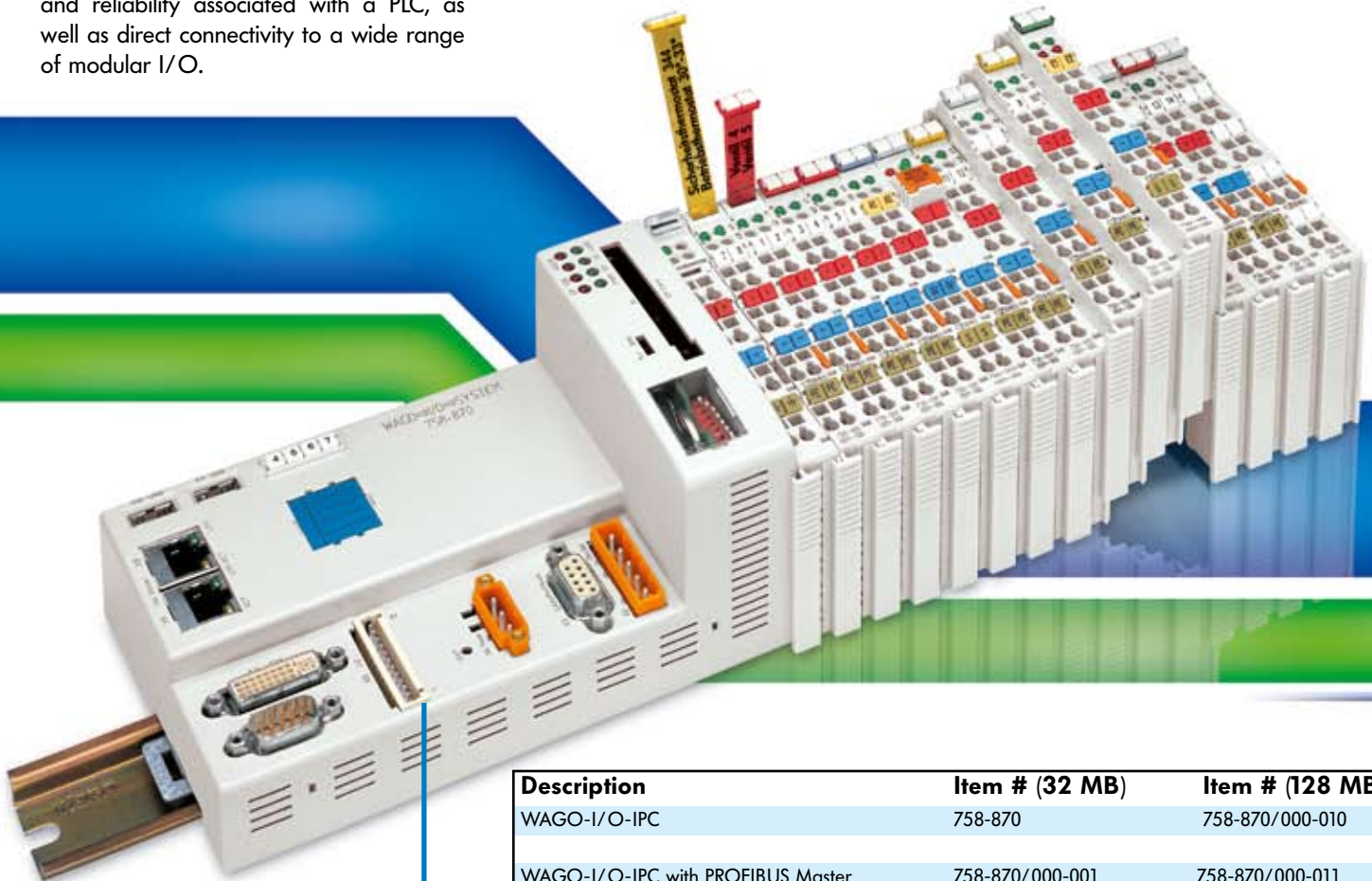
The WAGO-I/O-IPC Series 758

Today's engineers face many decisions regarding their control strategy of today and for tomorrow. One of the biggest challenges is the ongoing battle of PC based vs. PLC based control. Migration to PCs offers many features not available in most PLC systems (example: USB interface, ethernet adapters, video interface, compact flash, etc.). However, in exchange for PC functionality, users often lose the ruggedness and reliability associated with a PLC, as well as direct connectivity to a wide range of modular I/O.

Equally challenging is the convergence of the automation and IT worlds. Not only must engineers consider the control application but also how to connect the application to an enterprise system (ERP, MES, or SCADA).

With the 758-870 Series, WAGO has once again innovated a solution to solve today and tomorrow's technology chal-

lenges. This new control platform combines PC features with the ruggedness of a PLC, as well as connectivity to the IT world. To complete the solution, the 758-870 Series is programmed via the versatile WAGO-I/O-PRO CAA software tool. With built-in HMI and OPC server, not only can you create your control program, but also your HMI screens as well as connect to the enterprise system - all in one development package.



Description	Item # (32 MB)	Item # (128 MB)
WAGO-I/O-IPC	758-870	758-870/000-010
WAGO-I/O-IPC with PROFIBUS Master	758-870/000-001	758-870/000-011
WAGO-I/O-IPC with CANopen Master	758-870/000-002	758-870/000-012

Built-in PLC Features

- Compact, rackless DIN rail mounting
- Direct connection of 750 and 753 Series I/O modules (over 200 types)
- IEC 61131-3 programming environment
- On board digital I/O interface with watchdog
- Fieldbus master (or slave) interface - optional
- Real-time clock

Built-in PC Features

- 2 independent ethernet ports (10/100 BaseT)
- 2 USB ports (keyboard, mouse, etc.)
- Integrated web server for configuration, testing, and retrieval of technical documentation
- RS-232 serial port
- Digital Video Interface (DVI) - VGA supported with adapter
- CompactFlash® interface

Technical Data

- Pentium MMX compatible CPU - 266 MHz
- Multitasking CPU with web server
- Run/stop switch
- Up to 128 MB RAM and 32 MB Flash
- Diagnostic LEDs
- Battery backup
- 24V DC power supply
- Dimensions: 128 L x 28/65 H x 100 W (mm) or 5.04 x 1.10/2.56 x 3.94 (inches)

Scalable Ethernet Solutions Come Full Circle

750-841:

- 32 Bit Ethernet based PLC, 10/100 Mbps
- Web-server, multitasking, real-time clock

750-341:

- 32 Bit Ethernet based Bus-Coupler, 100 Mbps

750-871:

- 32 Bit Ethernet based PLC, 10/100 Mbps
- Web-server, multitasking, real-time clock
- 2 x RJ-45

750-842:

- 16 Bit Ethernet based PLC, 10 Mbps
- Supports client/server applications

750-342:

- 16 Bit Ethernet based Bus-Coupler, 10 Mbps

750-873:

- 32 Bit Ethernet based PLC, 10/100 Mbps
- 1 x RJ-45; 1 x RS232

758-870/000-XXX

Ethernet Protocols	750-842	750-342	750-841	750-341	758-870	750-871	750-873	750-340	750-370	750-860	750-351	750-830
Modbus/TCP	●	●	●	●	●	●	●			●	●	●
Modbus/UDP	●	●	●	●	●	●	●			●		●
EtherNet/IP			●	●	●	●	●					
Multicast			●	●	●							
HTTP	●	●	●	●	●	●	●			●	●	●
FTP			●	●	●	●	●			●	●	●
SNMP			●	●	●	●	●					●
BootP/DHCP	●	●	●	●	●	●	●			●		●
SMTP	○	○	●	●	●	●	●					●
SOAP	○	○	○	○	○							
UCP/TAP	○	○	○	○	○							
SNTP			●	●	●	●	●			●		●
DNS			●	●	●	●	●			●		●
PROFINET								●	●			
LINUX										●		
SERCOS III											●	
BACNET/IP												●
NFS										●		

● - Supported ○ - Via Function Block Program (programmable devices only)



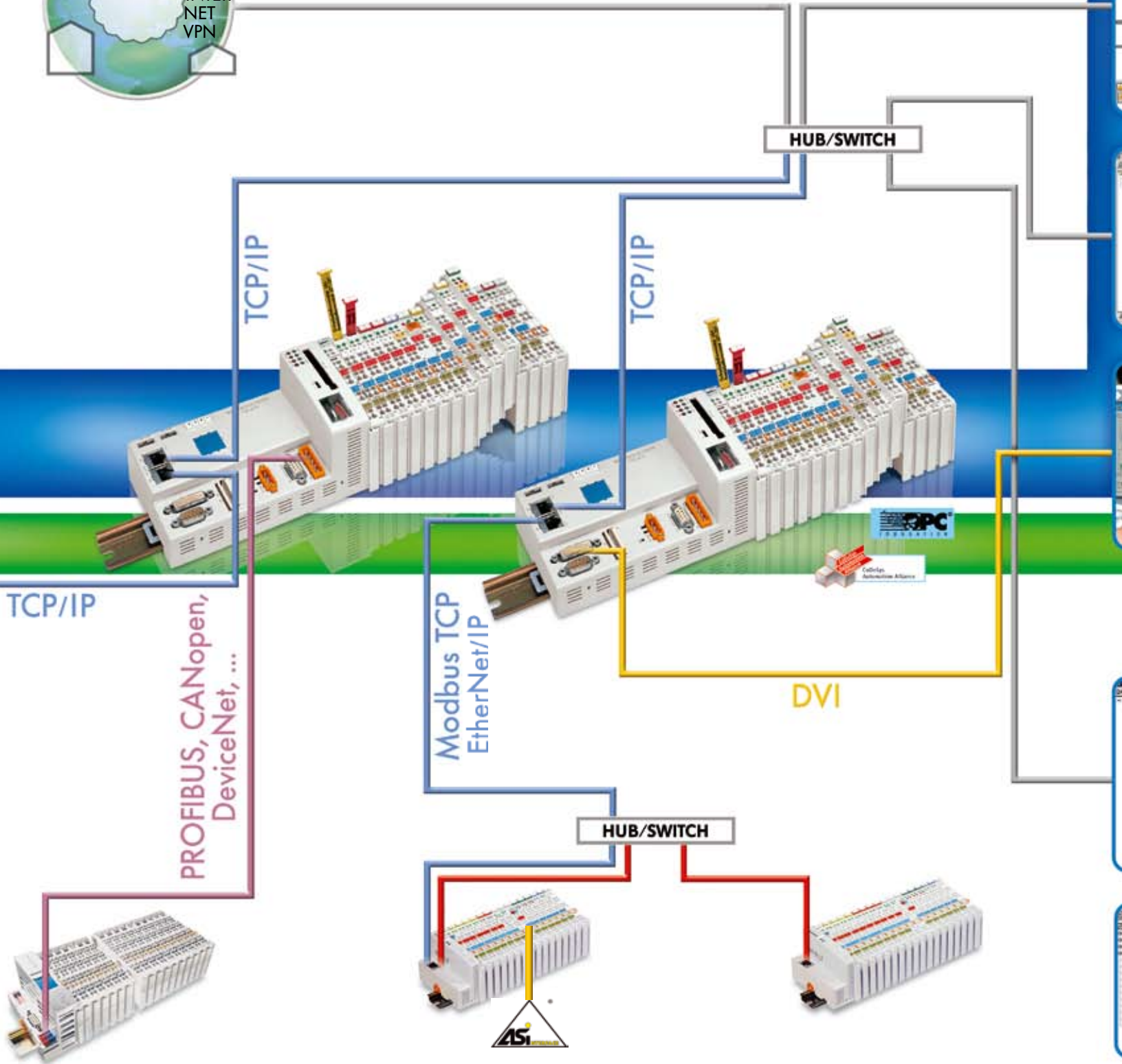
**Programming Tool WAGO-I/O-PRO CAA
(CoDeSys Automation Alliance)**

- Programming in all 5 IEC 61131-3 languages
- Built-in HMI development tool
- Open interfaces (OPC, DDE)
- Off-line simulation/online program change
- Create program libraries or download free libraries from WAGO
- Fieldbus configuration tool (PROFIBUS, CANopen, DeviceNet)



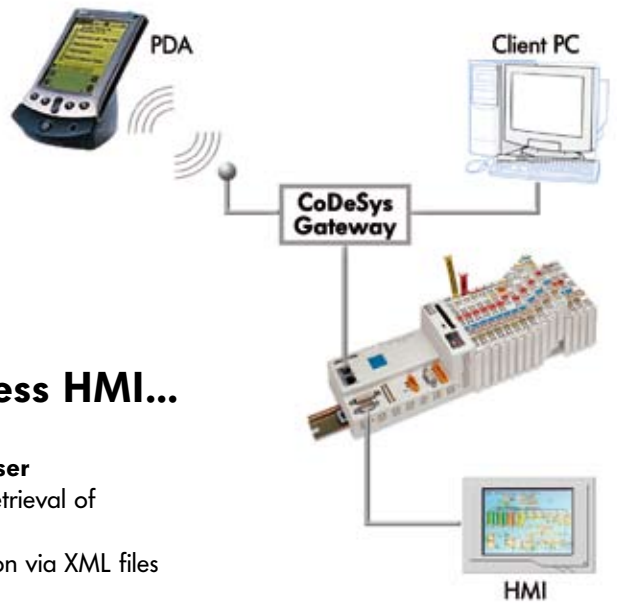
<http://www.automation-alliance.com>

- Password protect all or part of control application
- Network variable communication between multiple devices
- Interoperability with other CoDeSys Automation Alliance partners



Integrated HMI via Ethernet Port

- Complete integration in WAGO-I/O-PRO CAA
- Multiple access points to the same set of screens



Integrated HMI via DVI Port

- Plug-and-play HMI to standard monitor (DVI or VGA)
- Display screens created in WAGO-I/O-PRO CAA

Three Ways to Access HMI...

HMI Access via Internet Browser

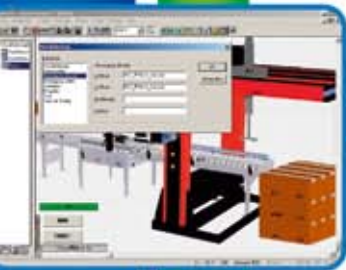
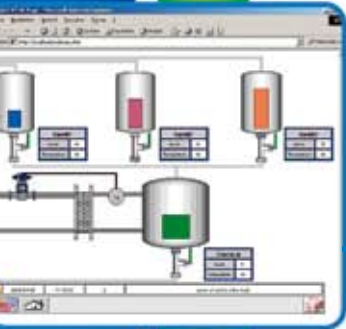
- For configuration, testing, and retrieval of technical documentation
- Platform independent visualization via XML files and Java Applets
- Use of standard internet browser

HMI Access via Programming Tool

- Shares common tag database with control application
- Direct variable integration
- Object-oriented

HMI Access via Digital Video Interface (DVI)

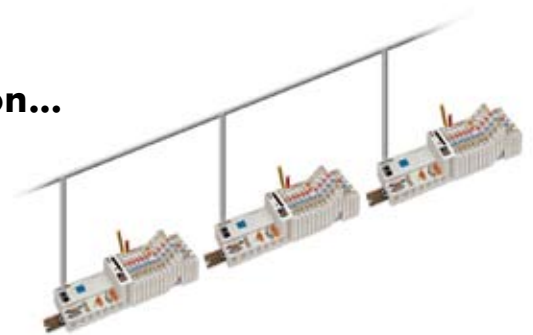
- View screens without opening programming tool
- Plug-and-play connection of standard monitor to DVI port on the WAGO-I/O-IPC
- Support for USB based touch screens
- Easily view screens created in WAGO-I/O-PRO CAA



Easy Network Integration...

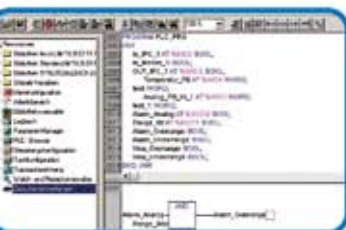
Integrated OPC Server

- Open interface for connection to enterprise (MES, ERP, SCADA)
- Direct viewing of application tag database variables via OPC tags



Integrated Network Variables

- Automatic "behind-the-scenes" data exchange between network components
- Data exchange procedure can be broadcast or cyclical



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