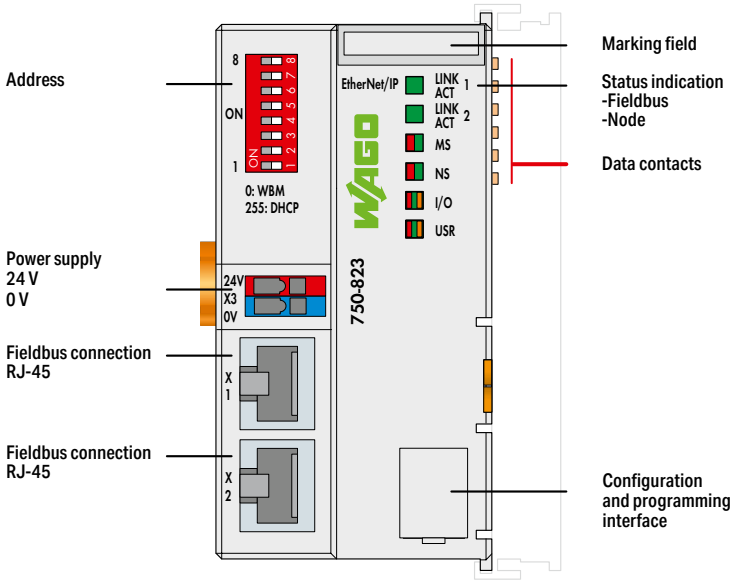
Controller EtherNet/IP; Eco



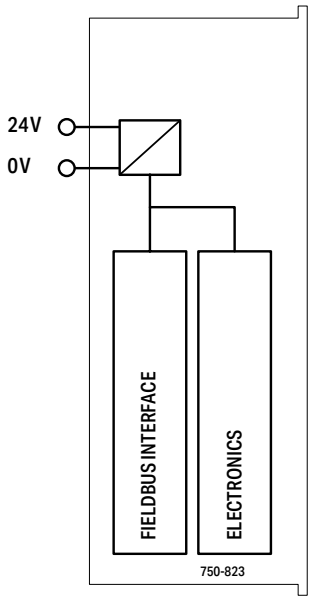
This controller can be used as a programmable controller within EtherNet/IP networks in conjunction with the WAGO-I/O-SYSTEM. The controller detects all connected I/O modules and creates a local process image. This process image may include a mixed arrangement of analog (word-by-word data transfer) and digital (bit-by-bit data transfer) modules.
Two ETHERNET interfaces and an integrated switch allow the fieldbus to be wired in a line topology. This eliminates additional network devices, such as switches or hubs. Both interfaces support autonegotiation and Auto-MDI(X).
The DIP switch configures the last byte of the IP address and may be used for IP address assignment.
The controller is designed for fieldbus communication in EtherNet/IP networks. It also supports a wide variety of standard ETHERNET protocols (HTTP(S), BootP, DHCP, DNS, SNTP, (S)FTP).
An integrated Webserver provides user configuration options, while displaying controller's status information.
The IEC 61131-3 programmable controller is multitasking-capable.

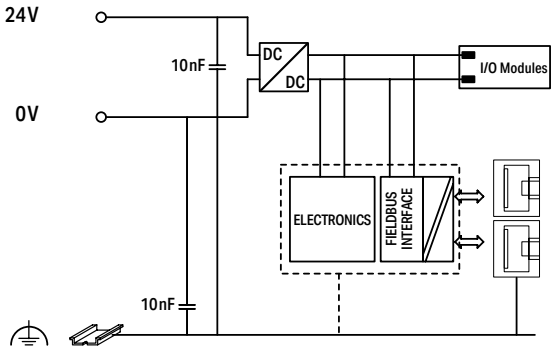
Description	Item No.	Pack. Unit
Controller EtherNet/IP; Eco	**750-823**	1

Accessories	Item No.	Pack. Unit
Mini-WSB Quick Marking System; plain	**248-501**	50

Approvals	
Conformity marking	CE
Marine applications	DNV GL
E175199 Ordinary Locations	
TÜV 14 ATEX 148929 X	II 3G Ex ec IIC T4 Gc
IECEx TUN 14.0035 X	Ex ec IIC T4 Gc
UL E198726 Hazardous Locations	Cl I, Div 2, Group A, B, C, D, T4

Technical Data	
Communication	EtherNet/IP adapter
Ethernet protocols	HTTP(S), BootP, DHCP, DNS, SNTP, (S)FTP
CPU	32 bits
Visualization	Webserver
Programming environment	WAGO-I/O-*PRO* V2.3 (based on CODE-SYS V2.3)
Programming languages per IEC 61131-3	IL, LD, FBD (CFC), ST, FC
Baud rate	10/100 Mbit/s
Transmission medium	Twisted Pair S-UTP; 100 Ω; Cat. 5; Line length (max.): 100 m
Transmission performance	Class D per EN 50173
No. of controllers connected to master	Limited by ETHERNET specification





Technical Data	
Number of modules per node (max.)	250
Number of modules without bus extension (max.)	64
Configuration options	WAGO-I/O-CHECK; Web-Based Management; CODESYS Library
Input and output (internal) process image (max.)	1020 words/1020 words
Program memory	2048 KB
Data memory	2048 KB
Non-volatile memory (software)	16 KB
Indicators	LED (LINK/ACT) green: Network connection via ports 1 … 2; LED (MS, NS) red/green: Status of node, network; LED (I/O, USR) red/green/orange: Local bus status, status programmable by user
Supply voltage (system)	24 VDC (−25 … 30 %); via wiring level (CAGE CLAMP® connection)
Total current (system supply)	700 mA
Input current (typ.) at nominal load (24 V)	300 mA
Power supply efficiency (typ.) at nominal load (24 V)	90 %
Current consumption – system supply (5 V)	390 mA
Isolation	500 V (system/supply)

General Specifications	
Connection technology: communication/fieldbus	EtherNet/IP: 2 x RJ-45
Connection technology: system supply	CAGE CLAMP®
Conductor cross sections	0.08 … 1.5 mm² / 28 … 14 AWG
Strip length	5 … 6 mm / 0.22 inch
Dimensions W x H x D (mm)	49.5 x 64.7 x 96.8; Height from upper-edge of DIN-rail
Mounting type	DIN-35 rail
Color	Light gray
Housing material	Polycarbonate, polyamide 6.6
Weight	106.5 g
Surrounding air temperature (operation)	0 … 55 °C
Surrounding air temperature (storage)	−40 … +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 … 2000 m
Mounting position	Any
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