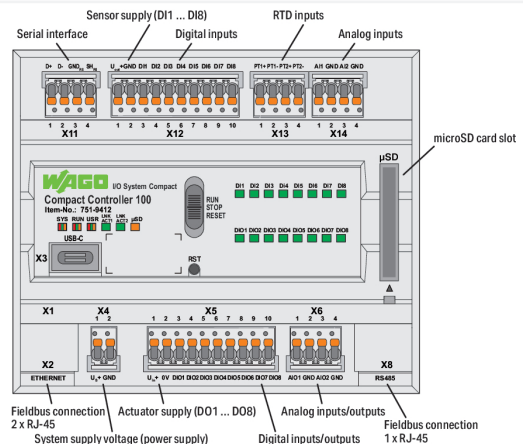
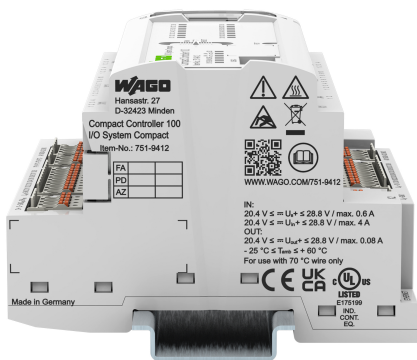
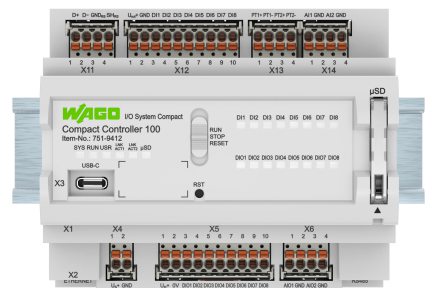
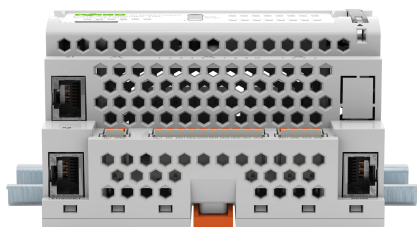
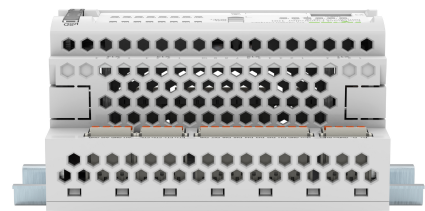
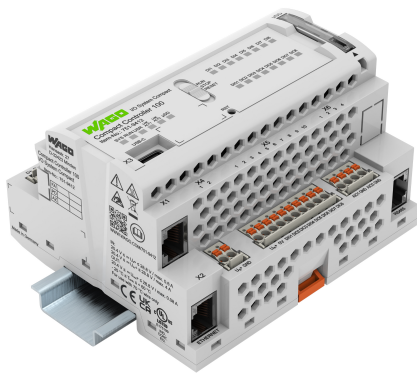




Technical data	
Communications	Modbus (TCP) Modbus RTU OPC UA Server/Client RS-485 interface MQTT (via IIoT library) SNMP (via IIoT library) Telecontrol protocols, (not part of IEC62443-4-2 certification), requires an additional license
ETHERNET protocols	DHCP DNS HTTPS SSH WDA OAuth2 LDAP IPsec
Visualization	Web-Visu
Operating system	Linux (Yocto distribution) with PREEMPT_RT
CPU	2 x Cortex A7; 650 MHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	CODESYS V3.5 CODESYS licenses included: • Control Basic M • Communication S/M 2048 Tags • Visualization S 128 data points • IIoT Libraries
Configuration options	CODESYS V3.5 Web-Based Management WAGO Device Manager
Transmission rate	10/100 Mbit/s
Transmission medium (communication/fieldbus)	Twisted pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length
Main memory (RAM)	512 MB
Internal memory (flash)	4096 MB
Non-volatile hardware memory	128 KB
Program memory	32 MB
Data memory	128 MB
Non-volatile software memory	128 KB
Type of memory card	microSD up to 32 GB (all guaranteed properties only valid with WAGO's memory card)
Memory Card Slot	Push-push mechanism
Indicators	LED (SYS, RUN), red/green: System status; LED (USR), red/green: User-programmable status (accessible via CODESYS library); LED (μSD), orange: microSD card status; LED (LNK/ACT), green: Network connection status via ports 1 ... 2; LED (DI1 ... 8), green: Status of inputs; LED (DO1 ... 8) green: Status of inputs and outputs
Control Elements	Operating mode switch (RUN, STOP, RESET); reset button
Interfaces (USB)	1 x USB, Typ C, Device-Mode
Supply voltage (system)	24 VDC (-15 ... +20 %); via wiring interface (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Current consumption (system) max.	600 mA
Supply voltage (field)	24 VDC (-15 ... +20 %); via wiring interface (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Field current consumption max. (digital outputs) $U_{in}+$	4000 mA
Isolation	1250 V (DC 1 min., between system and field level (digital outputs))



Technical Data (Inputs/Outputs)

Digital inputs/outputs	
Number of configurable digital inputs/outputs	8
Signal type	Voltage
Output current (per channel)	500 mA (DC)
Input characteristic	Type 3 (per EN 61131-2)

Digital inputs	
Number of digital inputs	8
Input characteristic	Type 3 (per EN 61131-2)

Analog inputs/outputs	
Number of analog inputs/outputs (configurable)	2
Resolution of analog inputs	16 bits
Input signal (current)	0 ... 20 mA 4 ... 20 mA 3.6 ... 21 mA
Input signal (voltage)	0 ... 10 V ±10 V
Resolution of analog outputs	12 bits
Output signal (current)	0 ... 20 mA 4 ... 20 mA 0 ... 22 mA
Output signal (voltage)	0 ... 10 V ±12 V ±10 V
Load impedance (voltage output)	≥ 1 kΩ
Load impedance (current output)	≤ 500 Ω

Analog inputs	
Number of analog inputs	2
Resolution of analog inputs	16 bits
Input signal (current)	0 ... 20 mA 4 ... 20 mA 3.6 ... 21 mA
Input signal (voltage)	0 ... 10 V ±10 V

RTD inputs	
Number of measurement inputs	2
Sensor types	Pt100 (-200 ... +850 °C); Pt200 (-200 ... +850 °C); Pt500 (-200 ... +850 °C); Pt1000 (-200 ... +850 °C); Ni100 (-60 ... +250 °C); Ni1000, TK6180 (-60 ... +250 °C); Ni1000, TK5000 (-60 ... +250 °C); Ni120 (-80 ... +260 °C); Potentiometer 0 Ohm ... 1.2 kOhm; Potentiometer 0 Ohm ... 4 kOhm

Connection Data	
Connection technology: communication/fieldbus	Modbus (TCP): 2 x RJ-45; RS-485 interface: 1 x RJ-45; RS-485 interface: 1 x Female connector, 4-pole; Push-in CAGE CLAMP®
Connection technology: system supply	1 x Female connector, 2-pole; Push-in CAGE CLAMP®
Connection technology: field supply	2 x Female connector, 10-pole; Push-in CAGE CLAMP®
Connection type	Female connector; Push-in CAGE CLAMP®
Connectable conductor materials	Copper
Solid conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches



Physical data		
Width		108 mm / 4.252 inches
Height		90 mm / 3.543 inches
Depth from upper-edge of DIN-rail		55 mm / 2.165 inches

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Housing material		Polycarbonate, polyamid
Weight		205 g
Conformity marking		CE; UKCA

Environmental requirements		
Ambient temperature (operation)		-25 ... +60 °C
Ambient temperature (storage)		-25 ... +80 °C
Protection type		IP20
Pollution degree		2 per IEC 61131-2
Operating altitude		0 ... 2000 m / 0 ... 6562 ft
Mounting position		any
Relative humidity (without condensation)		95 %
Vibration resistance		1g per IEC 60068-2-6
Shock resistance		15g per IEC 60068-2-27
EMC immunity to interference		per EN 61000-6-2
EMC emission of interference		per EN 61000-6-3

Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4066966806373
Customs tariff number		85371091990

Product Classification		
ETIM 9.0		EC000236
ETIM 10.0		EC000236
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
		
Approval	Standard	Certificate Name
KC National Radio Research Agency	Article 58-2, Clause 3	R-R-W43-CC751
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199
		Approval
		EU-Declaration of Conformity WAGO GmbH & Co. KG
		UK-Declaration of Conformity WAGO GmbH & Co. KG

Approvals for marine applications		
		
Approval	Standard	Certificate Name
DNV DNV GL SE	DNV-CG-0339,Aug.2021	DNV TAA00003G6

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 751-9412	

Documentation			
Manual			
Product Manual Compact Controller 100	3997292683 5 en-US 2026-04-27 12:09 18.04.2026	pdf 8630.45 KB	
Function Manual SECURITY, Functional Description YECTO Firmware	4079033611 3 en-US 2026-04-27 09:13 30.04.2026	pdf 8009.64 KB	

CAD/CAE-Data	
CAD data	
2D/3D Models 751-9412	



1 Compatible Products

1.1 Optional Accessories

1.1.1 Female connector

1.1.1.1 Female connector/socket



Item No.: 2091-1130
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 1,50 mm²; light gray



Item No.: 2091-1110/002-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; Gripping plate sliding connector release; 1,50 mm²; light gray



Item No.: 2091-1110
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; Gripping plate; 1,50 mm²; light gray



Item No.: 2091-1122
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; light gray



Item No.: 2091-1102/002-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate sliding connector release; 1,50 mm²; light gray



Item No.: 2091-1102
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate; 1,50 mm²; light gray



Item No.: 2091-1124
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; 1,50 mm²; light gray



Item No.: 2091-1104/002-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; Gripping plate sliding connector release; 1,50 mm²; light gray



Item No.: 2091-1104
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; Gripping plate; 1,50 mm²; light gray

1.1.2 Memory card

1.1.2.1 Memory card



Item No.: 758-879/000-3102
Memory Card SD Micro; 2 GByte



Item No.: 758-879/000-3108
Memory Card SD Micro; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C

1.1.3 Tool

1.1.3.1 Operating tool



Item No.: 2092-1630
Unlocking tool; orange