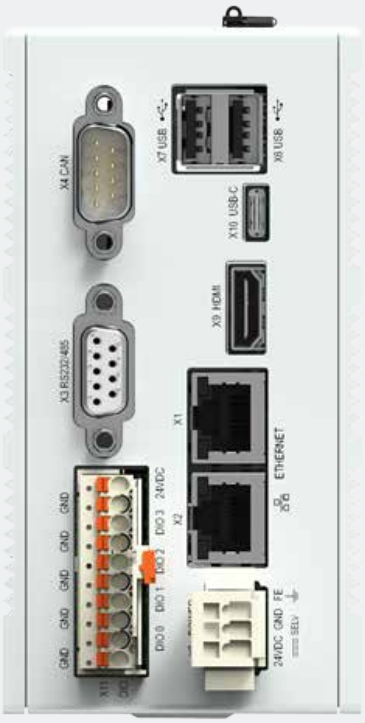
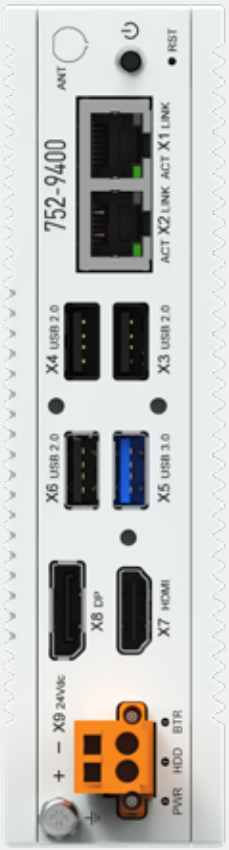
WAGO Edge Devices
IT and OT - All in One



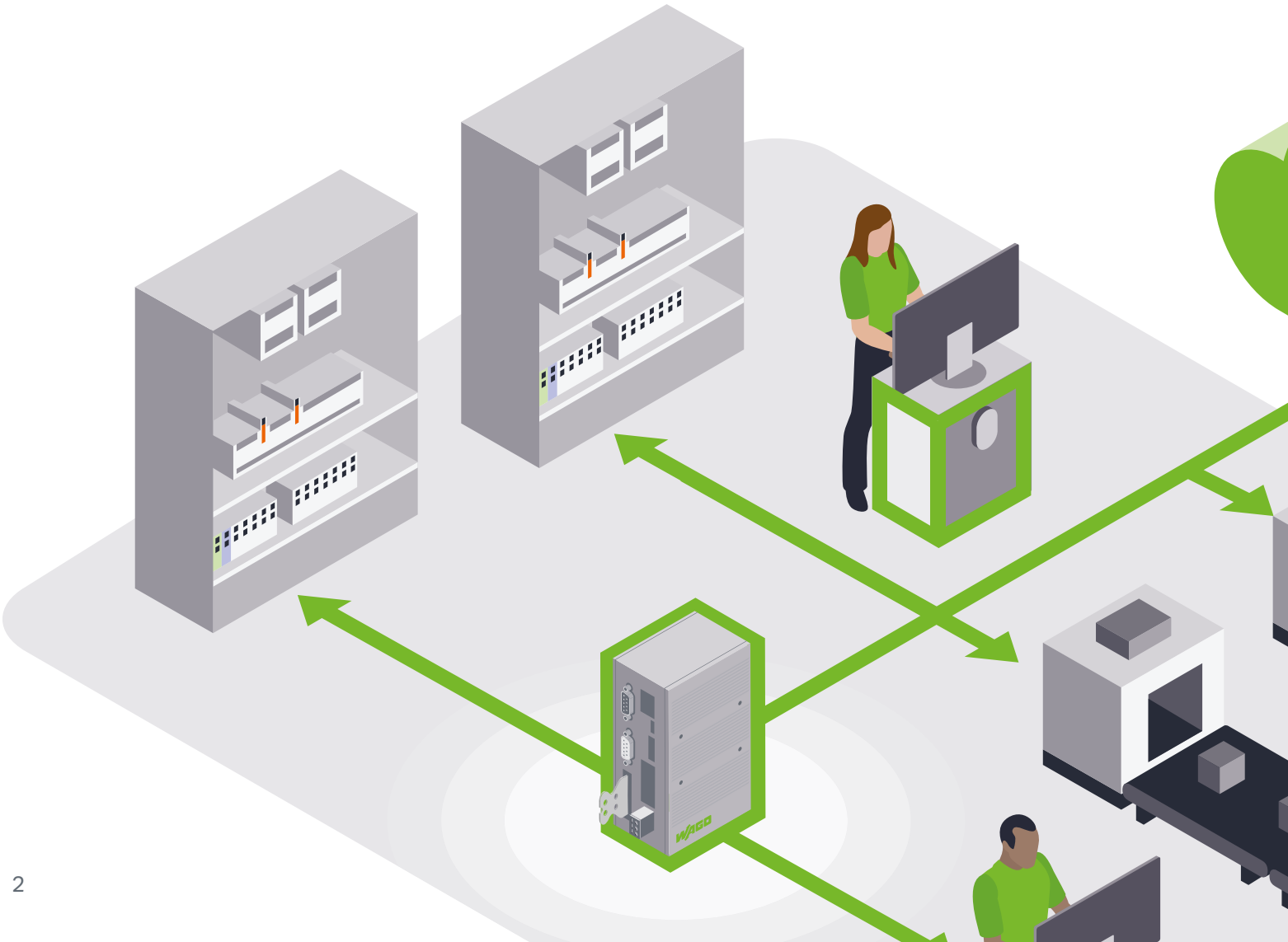






WAGO Edge of Network Devices

Digitalization in our modern global economy has become necessary for manufacturing facilities.
Companies are leveraging Cloud services to help them optimize their production systems. The process of collecting, sorting, and analyzing this data can be a daunting exercise. Thankfully, engineers are able to break down this digitalization operation into individual tasks by using edge devices for local data processing and Cloud gateway projects.



Today, IT and OT personnel can work together to meet the specific needs of these operations.

At the OT level, edge devices connect to industrial fieldbus networks to collect data from PLCs, sensors, and other devices to create a model, a Digital Twin, of their applications in real time. These edge devices are used to collect, sort, contextualize, and aggregate information. This is done to improve productivity by providing actionable information – such as trend information and reducing the potential of Cloud data storage costs.

IT engineers take this contextualized and aggregated information from edge devices to develop processes and tools that provide users with high level production and application information helping improve business results. These processes and tools can also send deep analytical information back down to the edge devices to assist the plant floor managers and operators with decision support information to help maximize local manufacturing.

One advantage of WAGO's Edge Devices is their use of the future-proof Linux operating system. Linux has been around for more than 30 years and its acceptance in the industrial space has been growing exponentially. Used in most servers as well as in many military applications, Linux is robust, giving users confidence that this open-source platform will continue to be available. Not having to update to a new platform every few years makes Linux-based edge devices ideal for innovative IoT applications. Most devices are open for special security solutions, providing users with a high degree of security, in line with the open, easy, and available principle.

WAGO's Edge Devices combine the attributes of deterministic real-time PLC control with data mediatation and storage of a PC, making them the duality of today's smart connected world. As a gateway between industrial networks, SCADA systems, and Cloud services, these WAGO Edge Devices connect people from the enterprise to the plant floor. Get your edge of network projects started today by using WAGO's Edge Controller and Edge Computers. performance.



Benefits

- Concurrent analytic processing and real-time deterministic PLC control
- Data gateway between OT fieldbus networks and IT Cloud networks
- High speed processing for low latency applications
- Data contextualization and aggregation for Cloud optimization
- High degree of security for sensitive applications and information

EtherCAT · IPsec · BACnet · HTML5 · OPENVPN · OPC UA · EtherNet/IP · MQTT · Modbus · CANopen

SCAN HERE to learn more!

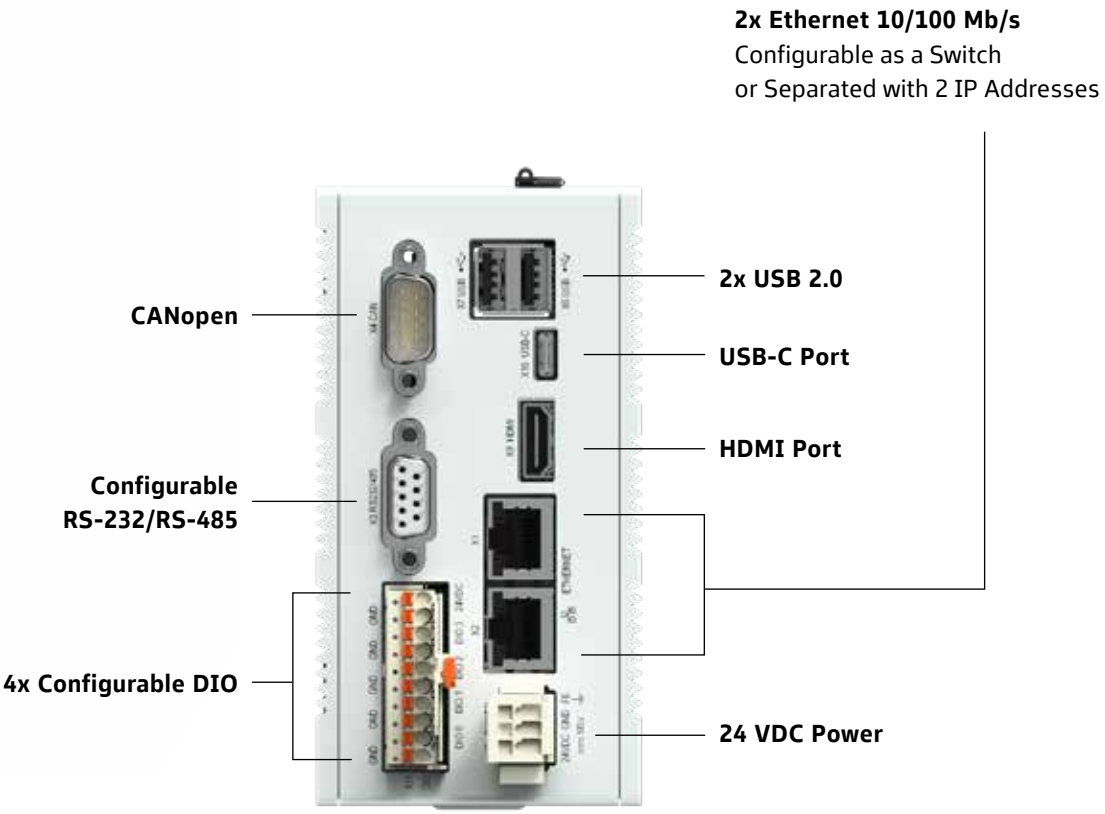


WAGO EDGE CONTROLLER

The WAGO Edge Controller is a PLC and Linux-based PC in one device. This device leverages the real-time control environment of CODESYS for industrial control and supports Linux-based tools, including applications that run in Docker containers.

The Edge Controller can carry out deterministic PLC control in parallel with open architecture software tools. Control Engineers can employ applications using proven IEC 61131 languages, including Ladder Diagram or Structured Text for traditional control applications. At the same time, it can also leverage Node-RED flow editor for specialized routines. Complex dashboards can be utilized through open-source tools like Grafana. In addition, the Edge Controller extends the Cloud down to the plant floor using edge software, such as AWS Greengrass for IoT.





PLC & Open Linux PC in One

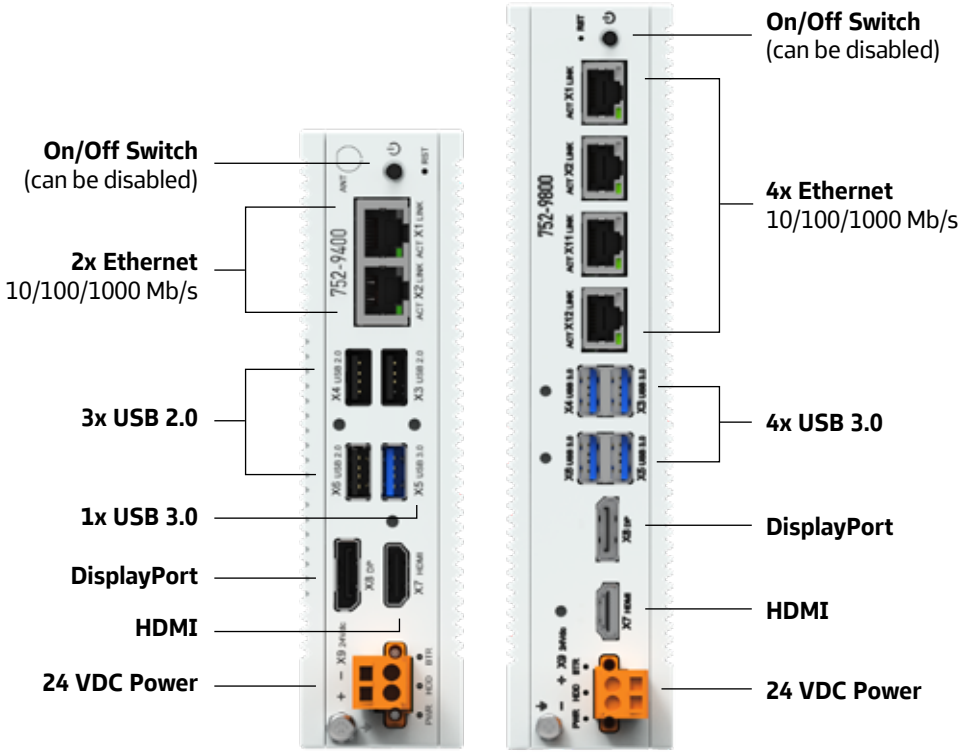
Specifications	
Part Number	**752-8303/8000-0002**
Intel® Processor	ARM® Cortex® A9; Quad-Core 4x 1.0 GHz
Memory	2 GB RAM
Non-Volatile Memory	128 kB
Flash	4 GB
Configuration	Web Based Management / CODESYS / Linux
Visualization	Web Sever / CODESYS Visualization
Mounting	DIN-Rail
Operating Temperature	-4 °F … 140 °F / -20 °C … 60 °C
Relative Humidity	90% (No Condensation)
Protection Type	IP40
Operating System	Real-Time Linux with RT-Preempt



WAGO EDGE COMPUTER

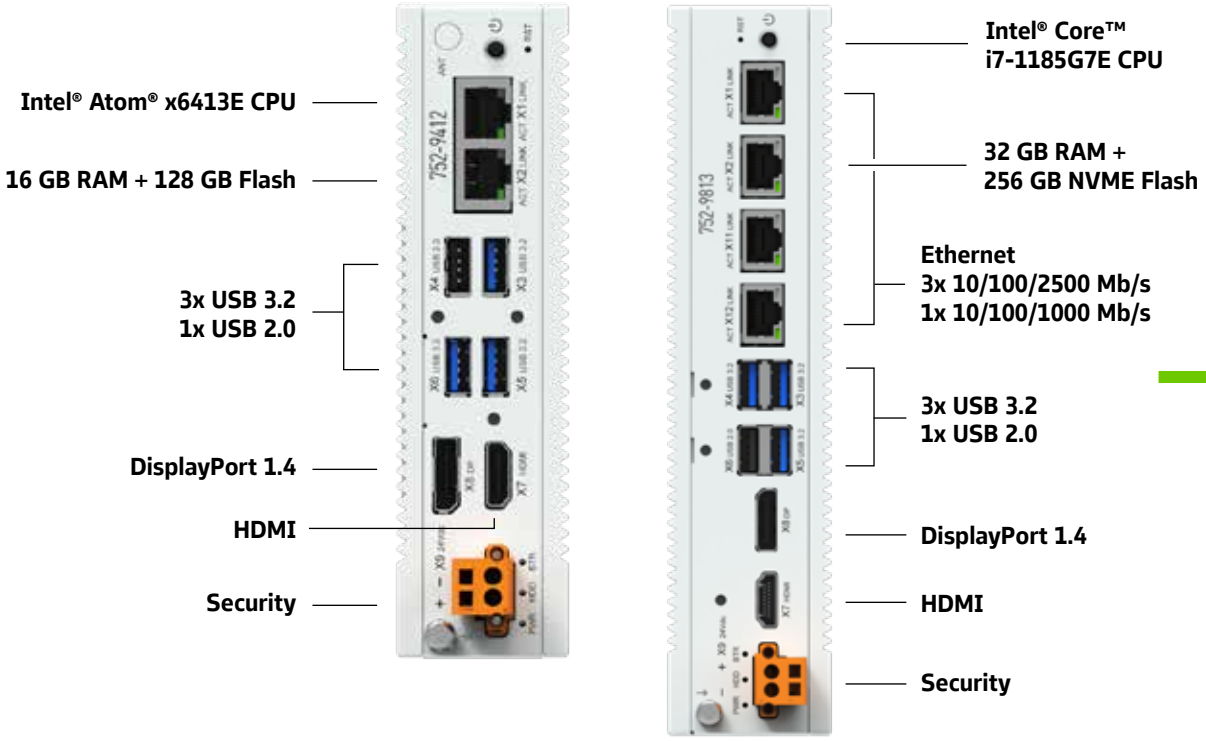
WAGO Edge Computers are an industrial Linux platform for your digitalization applications. These devices come standard with Debian Linux operating systems. Users can install their own applications such as Docker Containers, Node RED, or Grafana for specific requirements.

The powerful memory-laden WAGO Edge Computers enable Control Engineers and Enterprise Software Developers to run their own internal applications for heavy data processing such as machine learning. Reduce time to market by leveraging pre-developed edge applications such as SOFTWARE AG's Cumulocity IoT or Inductive Automation's IgnitionEDGE. WAGO's line of Edge Computers are up to the task for your edge of network applications.



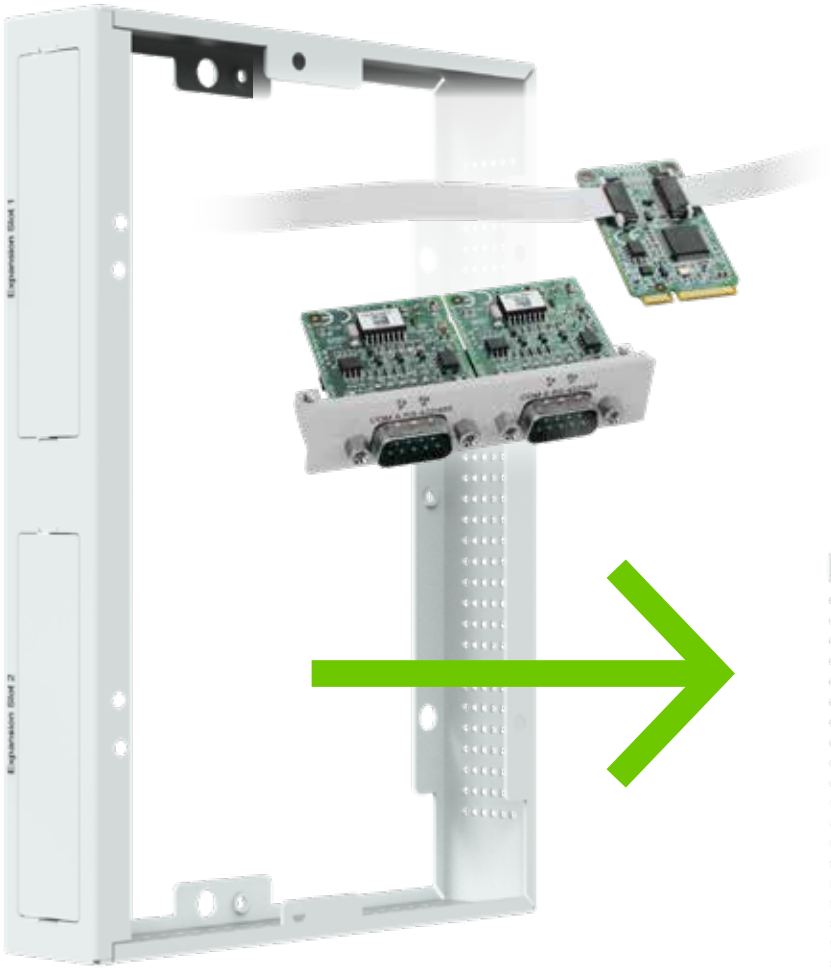
Open Industrial PC

Specifications			
Part Number	**752-9400**	**752-9401**	**752-9800**
Intel® Processor	Atom® E3845 (3rd Gen); Quad-Core 4x 1.91 GHz	Atom® E3845 (3rd Gen); Quad-Core 4x 1.91 GHz	Core® i7-7600U (7th Gen); Dual-Core 2x 2.8 GHz
Memory	4 GB DDR3 RAM	8 GB DDR3 RAM	16 GB DDR4 RAM
Flash	64 GB; mSATA SSD	64 GB; mSATA SSD	256 GB; mSATA SSD
Expansion	1x mPCIe Slot and 1x SATA 2.5“ SSD	1x mPCIe Slot and 1x SATA 2.5“ SSD	1x mPCIe Slot and 1x SATA 2.5“ SSD
USB	3x USB 2.0 & 1x USB 3.0	3x USB 2.0 & 1x USB 3.0	4x USB 3.0
Display Ports	1x HDMI & 1x DisplayPort	1x HDMI & 1x DisplayPort	1x HDMI & 1x DisplayPort
Ethernet	2x 10/100/1000 Mb/s	2x 10/100/1000 Mb/s	4x 10/100/1000 Mb/s
Visualization	Web Server	Web Server	Web Server
Mounting	DIN-Rail	DIN-Rail	DIN-Rail
Security & IP	TPM 2.0, UEFI Boot Secure; IP40	TPM 2.0, UEFI Boot Secure; IP40	TPM 2.0, UEFI Boot Secure; IP40
Operating Temperature	-4 °F...140 °F / -20 ... 60 °C @ 5 ... 85% RH (With 0.7 m/s Airflow)		
Relative Humidity	10 ... 95% (Without Condensation; RH at 104 °F / 40 °C)		
Operating System	Debian-Linux		
Dimensions	40 x 150 x 105 mm	40 x 150 x 105 mm	45 x 200 x 140 mm



Second Generation WAGO Edge Computer

Specifications		
Part Number	**752-9412**	**752-9813**
Intel® Processor	Atom® x6413E (Gen 6); Quad-Core 4x 1.5 GHz	Core™ i7-1185G7E (Gen 11);Quad-Core 4x 1.8 GHz
Memory	16 GB DDR4 RAM 3200 MHz SODIMM	32 GB DDR4 RAM SODIMM
Flash	128 GB m.2 SATA SSD	256 GB m.2 SSD NVME
Expansion	1x mPCIe Slot, 1x M.2 B and SATA 2.5“ SSD	2x mPCIe Slot, 1x M.2 B and SATA 2.5“ SSD
USB	3x USB 3.2 & 1x USB 2.0	3x USB 3.2 & 1x USB 2.0
Display Ports	1x DisplayPort 1.4a; 1x HDMI 1.4	1x DisplayPort 1.4a; 1x HDMI 1.4
Ethernet	2x 10/100/1000 Mb/s	3x 10/100/2500 Mb/s; 1x 10/100/1000 Mb/s
Visualization	Web Server	Web Server
Mounting	DIN-Rail	DIN-Rail
Security & IP	TPM 2.0, UEFI Boot Secure; IP40	TPM 2.0, UEFI Boot Secure; IP40
Operating Temperature	-4 °F...140 °F / -20 ... 60 °C @ 5 ... 85% RH (With 0.7 m/s Airflow)	
Relative Humidity	10 ... 95% (Without Condensation; RH at 104 °F / 40 °C)	
Operating System	Debian-Linux	
Dimensions	40 x 150 x 105 mm	45 x 200 x 140 mm



RS-422/485	**CAN**
RS-232	**Ethernet**



WAGO Edge Computer Expansion

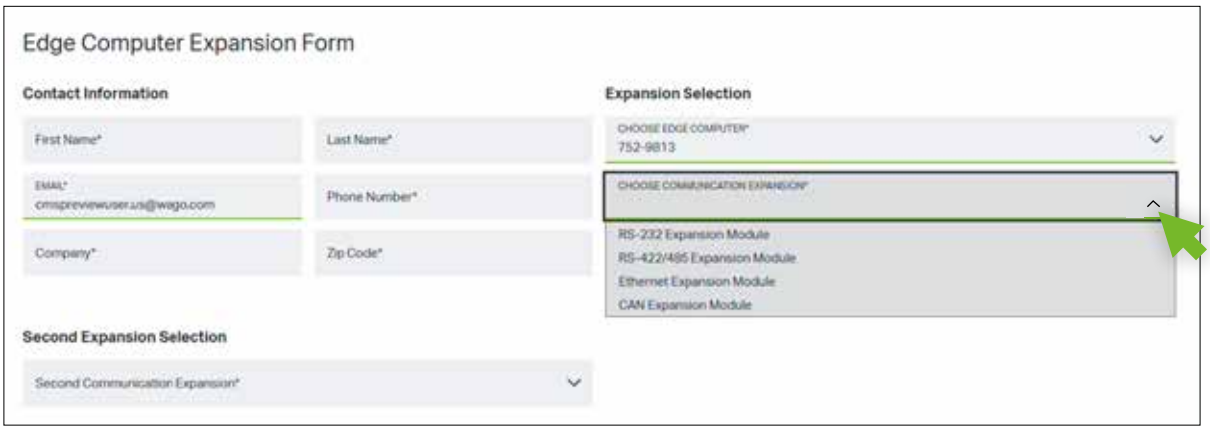
Specifications		
758-9400	Expansion Housing for 752-9400, 752-9401, 752-9412	
758-9800	Expansion Housing for 752-9800 and 752-9813	
758-9011	RS-232 Module (mPCIe)	230.4 kB/s
758-9012	RS-422/485 Module (mPCIe)	200 b/s; 921.6 kB/s
758-9013	Ethernet Module (mPCIe)	10/100/1000 Mb/s
758-9016	CAN Module (mPCIe)	CAN 2.0 A/B; 1 Mb/s

WAGO EDGE COMPUTER CONFIGURATOR

Step One – Choose a WAGO Edge Computer (i7 or Atom Processor)



Step Two – Choose a WAGO Edge Computer Expansion (RS-232, RS-485, CAN, Ethernet)





SCAN HERE
to start your configuration now!

Step Three (Optional) – **Choose a Second Expansion (for 752-9813) and Submit**



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