

ABB Ability™ Edgenius E3100B

Enabling enterprises for smart digitalization



The ABB Ability™ Edgenius E3100B secures the connection between the cloud, control systems and smart devices. The extensive connectivity capacities allows the edge to ingest data from countless devices and systems and make it available for ABB Ability™ cloud applications.

The ABB Ability™ Edgenius platform supports an advanced data collection, pre-processing, calculation and analysis while keeping the same plant information model which avoids double engineering and improves usability.

Flexible and secure

ABB Ability™ Edgenius provides a secure connection between the ABB Ability™ Cloud, control systems and smart devices. ABB System 800xA and Symphony Plus provide smart purpose built Publisher interfaces to stream data to the edge and cloud with minimal engineering effort. Other control systems and devices are connected using OPC UA.

In addition to providing connectivity, ABB Ability™ Edgenius also enables edge computing by hosting a wide range of industrial applications.

The ABB Ability™ Edgenius bridges the OT and IT efficiently with high data throughput and availability without any impact on the mission critical process control. It also provides extensive layers of security such as Trusted Platform Module (TPM), secure boot

and certificate base authentication (X509) as required for an internet connected device.

ABB Ability™ Edgenius is completely cloud managed from the Edgenius Management Portal application. This application allows administrative users to remotely monitor and manage their fleet of edge nodes including management of all software versions running on the edge.



Extensive connectivity

- Systems and devices to cloud



Reliable and Secure Operations

- No impact on the process control
- High bandwidth and availability
- Streamlined data capture



Powerful Edge Computing

- Flexible, open and near the source

Technical Facts

System Unit:	Intel Core i7 7600U 2.8 GHz, Dual core
Main memory:	32 GB RAM (2* SO-DIMM DDR4, 16 GB)
Hard drive:	CFast 256 GByte MLC
Power supply:	24 VDC 3-pin female connector
Interfaces:	4*USB, 3* Ethernet 10/100/1000, SDL/DVI-D
Operating system:	Ubuntu Server
Connectivity (on premise):	ABB Control System Connect for System 800xA, Symphony Plus OPC UA Client Connect and Modbus TCP Connect
Connectivity (ABB Ability™ Cloud)	AMQP wss
Dimensions	Width: 54 mm Height: 173.5 mm Depth: 248.3 mm
Weight	1380 g

