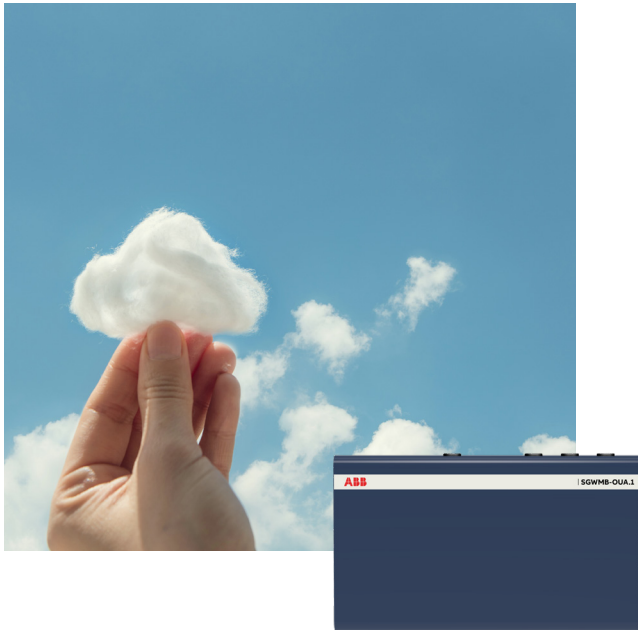

Smart Communication Card

A piece of cloud for everyone



Digitalization is not the future – it is already here. The Smart Communication Card enables your devices to connect to cloud-based portals. Using the standard OPC UA protocol, the Smart Communication Card provides seamless integration of contactors with the cloud via Novolink. In addition, Modbus RTU and Modbus TCP provide advanced connectivity to your devices. The easy-to-configure Smart Communication Card is designed to bring a piece of the cloud to everyone.



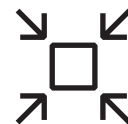
Optimum Interface

Connect your devices to cloud-based platforms by selecting one of multiple options including MQTT, https and OPC UA.



Safety and Protection

Keep your digitally connected systems secure and safe against any Cyber threat as the Smart Communication Card provides cyber security functions as built-in feature.



Space saving

Optimize your panel size with space optimized Smart Communication card.



Speed up your project

Speed up your project with the user-friendly web-based tool to configure and commission the Smart Communication Card.



Easy to install

With optimized numbers of wiring connection and installation method, install your Smart Communication Card efficiently and effectively.



Service and training

There's no need to learn every possible adjustment and its effects on your system – ABB's trained staff supports your business and answers your technical questions promptly.

What is a Smart Communication Card?

IT cooperate Compliant
Secure access



Cloud-based systems



Smart Communication Card supports
https / MQTT / OPC UA to 3rd-party platforms

Local Industrial LAN



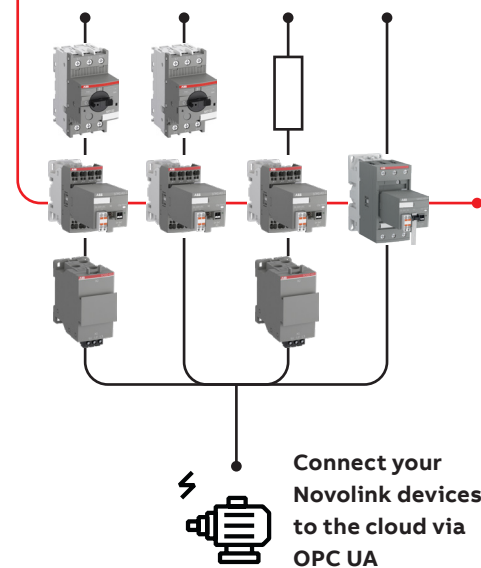
OPC UA

Modbus TCP/RTU



Smart Communication Card with
Modbus RTU,
Modbus TCP
OPC UA

Novolink



Universal motor controller
UMC100.3

Grid feeding monitoring relay
CM-UFD

Smart temperature monitoring relay
CM-TCN.012

Softstarter PSTX

Modbus RTU

The Smart Communication Card operates on an embedded OPC UA server. These OPC UA servers refer to devices that can be connected to an OPC UA-based network as servers. They provide the simplest, most efficient and cost-effective way to access data when and where it is needed - all without the need for additional PCs and extra configuration and maintenance. Having OPC UA run natively (embedded) on the devices themselves brings many advantages:

- **Ease of use:** the OPC tags are natively present in the device. The commissioning engineer only has to select the OPC tags that they want to visualize or log.
- **Secure:** Since OPC UA communication can be authenticated and encrypted, the installation has the potential to be more difficult for an attacker to compromise.
- **Flexible:** OPC UA is more than just a protocol for industrial automation. It incorporates an extensible information model that makes it extremely attractive for many vertical markets.

The Smart Communication Card can be integrated with Novolink devices to make the data available in 3rd-party platforms. The all-new ABB Novolink™ devices help digitalize motor starting solutions and gain insights into the connected loads. They're easy to design into existing wiring plans and connect to standard AF contactors. Installation is fast and simple, thanks to reduced wiring and fewer components, engineering efforts can thereby be minimized. The Novolink devices enables predictive maintenance to reduce downtime, as well as increasing efficiencies and boosting cost savings. The Smart Communication Card collects thereby the data from the X2X to OPC UA converter and provides it to cloud systems.

In addition, the data from Modbus TCP /RTU supporting devices can also be processed. At present, the smart monitoring relay CM TCN.012, Universal motor controller, UMC100.3, grid feeding relay CM-UFD and Softstarter PSTX are supported. Third party devices can be connected with the creation of a Jason file.



Characteristics

- Rated supply voltage range from 8 to 30 V DC
- Dimensions 120 x 75 x 35 mm (W x H x D)
- Extender operation temperature range of -20°C to +70°C
- Wall or DIN rail mounting
- Supports comprehensive cloud and server protocols such as https, MQTT and OPC UA
- Connection to cloud-based platforms
- Supports OPC UA, Modbus RTU and Modbus TCP on the field side
- Conform with RoHS, EMC and other standards
- Controller ARM Cortex-A7, 528 MHz
- RAM 512 MB
- Flash 4 GB
- Gateway: Ethernet (10/100 MBit/s), RS485
- Power Plug-in screw-type terminal
- LEDs 1 Power, 2 and 3 Free programmable
- Data storage on internal Flash or Micro-SD card up to 64 GB
- Configurations Basic configuration via web interface

Ordering details

Description	Rated input voltage	Order code	Weight (1 pc) kg (lb)
SGWMB-OUA.1	8-30 V DC	1SVM410000R0000	0.140 (0.309)

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Smart Power division
 Eppelheimer Straße 82
 69123 Heidelberg
 Germany

abb.com/lowvoltage

Additional information

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