

ABB Plug & Play Connectivity Service

Efficient and cost-effective wireless transmission of data from powertrains to dashboards



ABB Plug & Play Connectivity Service enables the best quality cellular connection that makes data transmission between your Digital Powertrain assets and ABB cloud services seamless, cost efficient and reliable. The service features a globally enabled SIM card, an optimized data plan and 24/7 connectivity support.

Seamless transmission of data

Extracting data from powertrain assets such as variable speed drives, motors and pumps, is critical for condition monitoring, energy assessments or general maintenance needs.

Data from the powertrain is transferred via a gateway/modem through an operated mobile network to the ABB Ability™ cloud, whereupon it is translated into meaningful information and key performance indicators for display on a series of dashboards.

What is ABB Plug & Play Connectivity Service?

The ABB Plug & Play Connectivity Service helps to make the data transmission seamless, cost efficient and reliable by enabling the best quality cellular connection between your Digital Powertrain assets and ABB cloud services, independent of existing OT and IT networks.

The service features a globally enabled M2M IoT SIM card, 24/7 connectivity support, and a data plan that is optimized to customer needs to avoid any surprises of actual data consumption or rates.

The ABB M2M IoT SIM card can be either pre-integrated and ready to use or ordered as a connectivity kit for gateway solutions. It automatically connects to the

best local available network. Once connected, the powertrain data can be uploaded to the ABB Ability cloud for analysis and accessed via the ABB Ability™ Digital Powertrain portal.

Key benefits



Increased security

Uses ABB's private access point name (APN) and ABB cyber security approved device authentication



Simplified billing

No contract hosting and a consolidated invoice help optimize costs through data plan



Flexible implementation

Whether the SIM card is pre-integrated and ready to use or ordered as a connectivity kit for gateway solutions, the installation is straightforward, bringing rapid detection of nearby ABB cloud services



24/7 support

ABB assistance is always available for connectivity-related queries

Four simple steps to connect your assets



Start-up

Install the gateway/modem with the integrated SIM card or plug the SIM card into the existing gateway/modem and turn it on



Routing

The ABB M2M IoT SIM card uses operated NB-IoT, 3G, 4G or 5G mobile networks, or a private wireless network solution, to connect to the ABB Ability cloud



Dual authentication

The gateway/modem is authenticated and registered to the network via a dedicated private APN and subscriber identity module (SIM) and to the ABB Ability cloud via a pre-shared key



Data transmission

Data can now be transferred from the powertrain through a stable, secured and operated (monitored) network to the ABB Ability cloud

For more information, please contact your local ABB representative or visit:

abb.com/motors-generators/service
abb.com/drives/services

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Ltd does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained herein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in part – is forbidden without prior written consent of ABB Ltd. Copyright© 2021 ABB All rights reserved