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