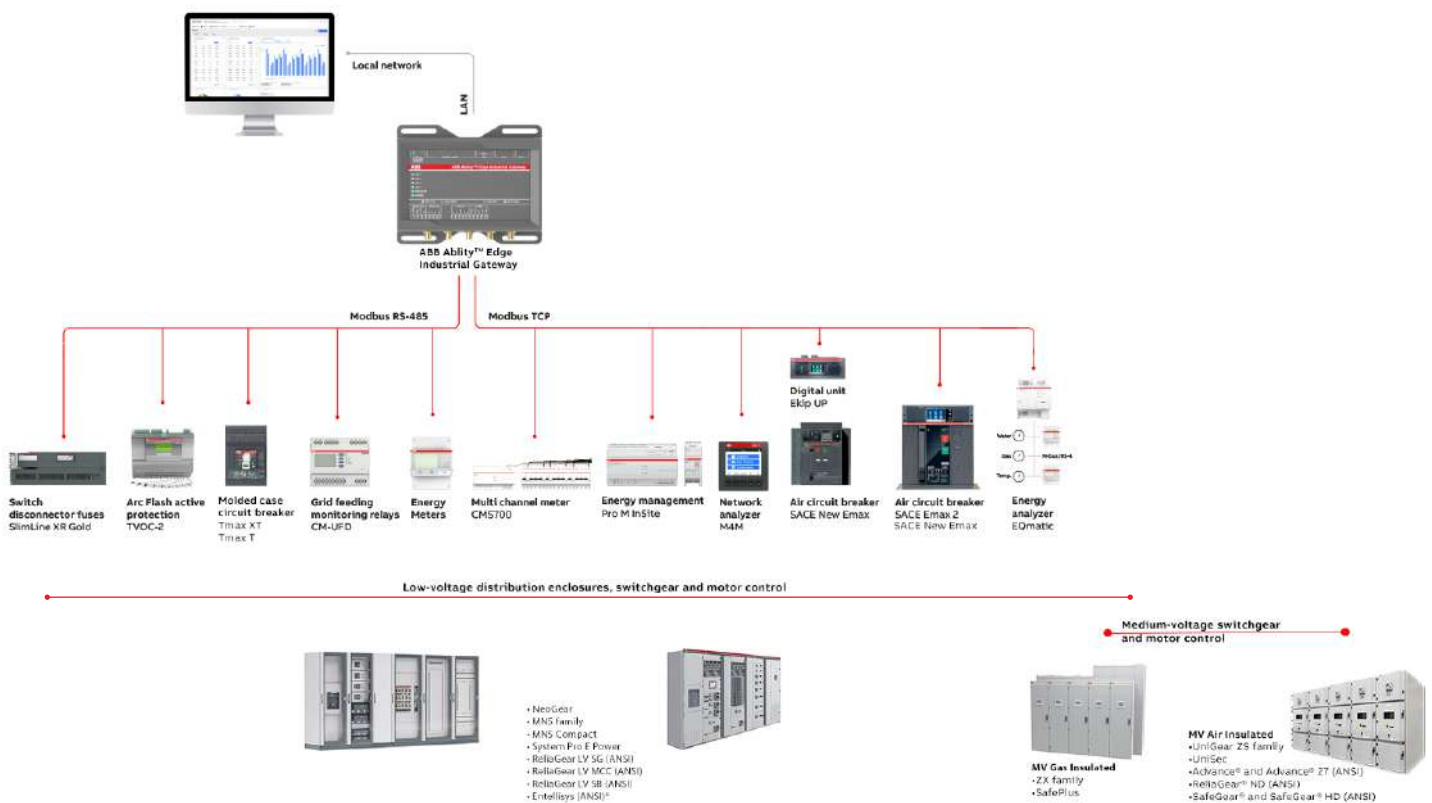


ABB Ability™ Edge Industrial Gateway

Local View



Local view

ABB Ability™ Edge Industrial Gateway runs ABB Ability™ Energy and Asset Manager solution on-premise with local data collection and viewing possibilities via local web server.

Local View version ensures:

- data security keeping the full database on the gateway server
- ease of use with pre-configured device integration and quick commissioning
- energy efficiency thanks to the immediate use of ABB Ability™ Energy and Asset Manager solution with Current, Voltage, Power and Energy widgets for the devices/device groups and connected asset list with connection status.

More information about ABB Ability™ Energy and Asset Manager solution are available [here](#).

Architecture notes

By default local web view is accessible from the Ethernet port ETH1 which is connected to the same network where devices are present. Following a dedicated cybersecurity procedure*, it can be enabled also for the second Ethernet port ETH0 which can be connected to another local network. Otherwise ETH0 is ready for upgrading the connectivity to the cloud.

3G and Wi-Fi connectivity are not supported for Local View (ready for the upgrade to the cloud connectivity).

Commissioning is done by ABB Provisioning Tool and, during that phase, it requires internet connectivity.

Firmware update can be done by ABB Provisioning Tool cabled to ETH0 and laptop.

ABB Provisioning Tool is available [here](#).

*under preparation

Gateways



Edge GW Local View

ABB Provisioning Tool



Abb Ability™
Energy and Asset
Manager

Main details in a nutshell

Supported Devices	45 by Modbus TCP + 15 by Modbus RTU Emax 2 Series Breaker, Tmax XT Breaker, New Emax series, Tmax T series, Ekip UP, TruOne, Slimline XR Gold, TVOC2 (Arc Guard), CM-UFD, ITS2.1, Ekip Signalling TCP, CMS700, Insite Pro M, M4M, M2M, EQ Meter, EQ Matic, SWICOM, MDC4-M, REF542+
Available Widgets	Connectivity Overview, Device Current Trends, Device Power Data, Device Voltage Trends, Energy Cost, Energy Data, Energy Monitoring, Group Peak Monitoring, Group Real time currents, Group Real Time voltage, Group Real time Power, Power Demand, Power Factor, Power Generation, Power Quality, Real-time Voltage, Real-time Current, Real-time Power, Arc-guard widget, Analog Data Monitoring, Digital Data Monitoring, Asset Health overview (overall health condition of equipment), Environmental Data, Temperature Trend, Asset list (table) showing the connectivity status
Available Functions	<p>Explore tab with list of assets (devices) with:</p> <ul style="list-style-type: none"> • Available detailed status of the asset • Possibility to edit asset <p>Data analytics tab:</p> <ul style="list-style-type: none"> • Capability to create groups (also group of groups) • energy data reports for devices and groups <p>Settings tab:</p> <ul style="list-style-type: none"> • Available plant setting • Possibility to manage user • Settings of billing parameter* <p>Events tab:</p> <ul style="list-style-type: none"> • List of events occurred - Capability to create new alert condition - The alerts available are: CB tripped, O/C, Any alarm, Any trips, Contact wear, Currents IL1-IL2-IL3-N, Voltages U1-U2-U3-U12-U23-U31, Power Factor, Total Active power, Total apparent power, Total reactive power and others only if present in the devices

*one tariff only

Shopping list

The relative commercial codes are the following:

Code	Description
1SDA115508R1	ABB Ability Hybrid* Industrial gateway
1SDA115509R1	ABB Ability Hybrid* Industrial gateway 3G EU
1SDA115510R1	ABB Ability Hybrid* Industrial gateway 3G US

*This is the factory name

Additional accessories are the same of legacy gateway E-Hub 2.0.

Code	Description
1SDA114038R1	I/O module
1SDA114039R1	Wi-fi/Bluetooth antenna
1SDA114040R1	Cellular antenna
1SDA114041R1	Wall Mounting brackets
1SDA114043R1	Supply

ABB switchgears can also be equipped with Edge Industrial Gateway. Please refer to your ABB contact person for further information.



In order to unlock the web-server functions of ABB Ability Energy Manager, it is required to purchase yearly recurring or perpetual one shot voucher licenses in ABB Ability Marketplace™.

ABB Ability Marketplace™ US

<https://us.marketplace.ability.abb/en-US/listing>

ABB Ability Marketplace™ China

<https://marketplace.ability.abb.com.cn/>

ABB Ability Marketplace™ EU and Rest of the World

• Perpetual:

https://new.marketplace.ability.abb/s/products/electrification/energy-manager-perpetual-license-local?language=en_US

• 1 year:

https://new.marketplace.ability.abb/s/products/electrification/energy-manager-local-view-voucher?language=en_US

Future firmware upgrade will also enable the cloud connectivity option.

How ABB Ability™ Energy and Asset Manager looks like in Local View

Dashboard

ABB Ability™ Energy and Asset Manager

Dashboard | Explore | Data analytics | Maintenance | Events | Settings

Overview

Connectivity Overview

4 Assets

4 Connected
0 Disconnected

Real Time Power

Device	P(W)	Q(VAR)	S(KVA)
XT2 MAIN	86.1	-2.1	86.1
XT4 GEN	0	0	0
XT5 Totem	0	0	0
TB1	0	0	0

Real Time Voltage

Phase Phase

Device	U1(V)	U2(V)	U3(V)
XT2 MAIN	385.8	385.4	386.2
XT4 GEN	384.1	384.2	384.0
XT5 Totem	401.8	401.5	401.4
TB1	399.9	401.4	402

Real Time Currents

Device	I1(A)	I2(A)	I3(A)
XT2 MAIN	126	126.9	126.6
XT4 GEN	0	0	0
XT5 Totem	0	0	0
TB1	0	0	0

ABB Ability™ Energy and Asset Manager

Dashboard | Explore | Data analytics | Maintenance | Events | Settings

Overview

Connectivity Overview

4 Assets

4 Connected
0 Disconnected

Real Time Power

Device	P(W)	Q(VAR)	S(KVA)
XT2 MAIN	86	-2.1	86
XT4 GEN	0	0	0
XT5 Totem	0	0	0
TB1	0	0	0

Real Time Voltage

Phase Phase

Device	U1(V)	U2(V)	U3(V)
XT2 MAIN	385.8	385.4	386.2
XT4 GEN	384.1	384.2	384.0
XT5 Totem	401.8	401.5	401.4
TB1	399.9	401.4	402

Real Time Currents

Device	I1(A)	I2(A)	I3(A)
XT2 MAIN	126	126	126.5
XT4 GEN	0	0	0
XT5 Totem	0	0	0
TB1	0	0	0

Highlights

- Analog Data Monitoring**
Shows trended recording values from analog input for a specific connected asset.
- Arc Guard**
Show states and events generated by my IVOG asset.
- Asset List**
Shows the list of assets in the cbi, with their health condition and connectivity status.
- Connectivity Overview**
Shows the overall asset connectivity statuses to verify the overall system functionality and the data quality.
- Device Current Trends**
Shows the current values in a certain period of time.

Explore

ABB Ability™ Energy and Asset Manager

Dashboard | Explore | Data analytics | Maintenance | Events | Settings

Explore: All equipment

NAME	CONNECTION	MODEL	SERIAL NUMBER	Type
XT2 MAIN	Connected	XT2 L50	1111202Totem	
XT4 GEN	Connected	S14 EVO LSI	86Z002348415000	
XT5 Totem	Connected	XT5 HI TOUCH	89K0118484515020	
TB1	Connected	XT7 J23	230920095020HG9P	

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