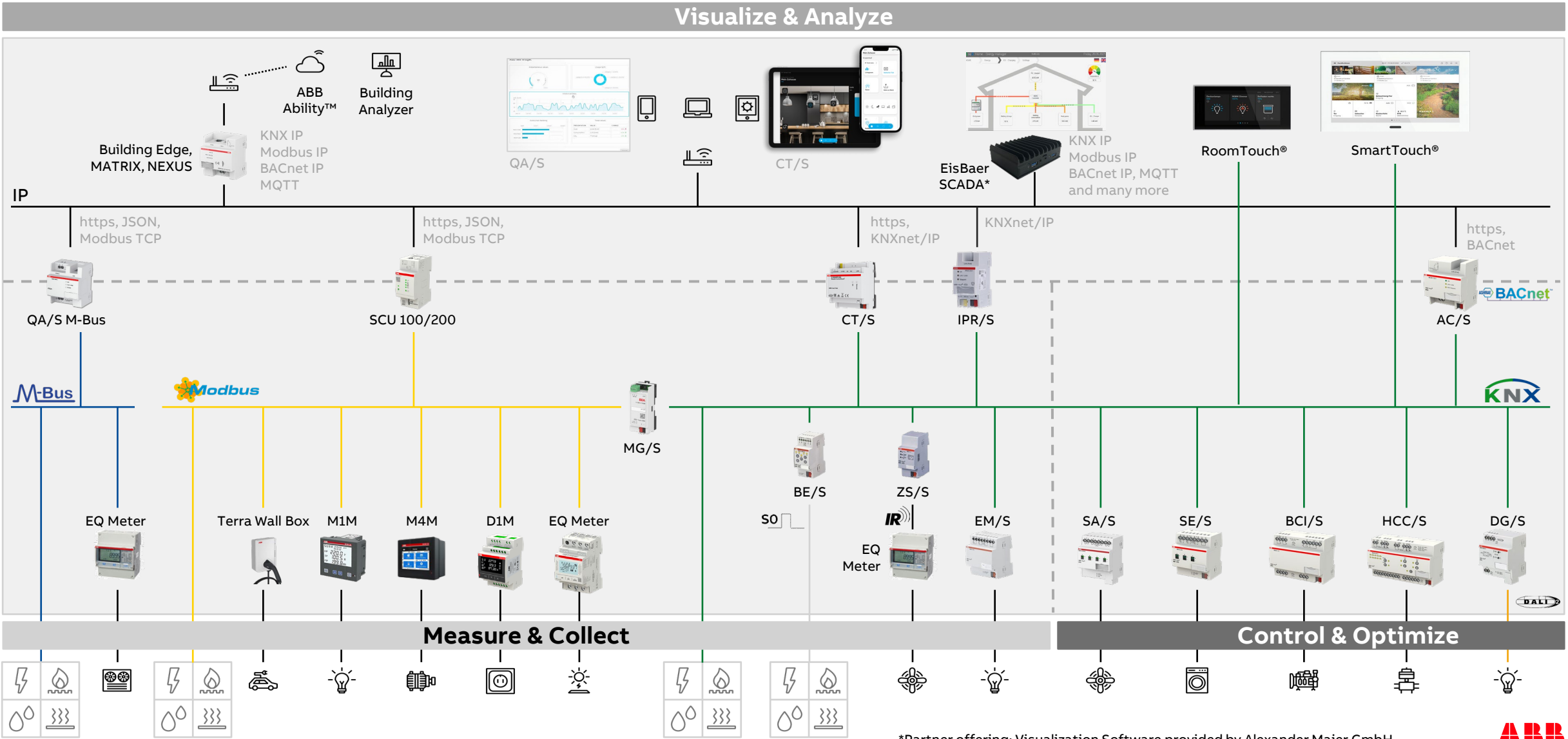


# ABB i-bus® KNX Energy Ecosystem



\*Partner offering: Visualization Software provided by Alexander Maier GmbH



## Technical Details

	Measure & collect	Visualize & analyze	Control & optimize	More detailed information
<b>EQ Meters A, B, C Series</b>	<ul style="list-style-type: none"> <li>Transformer and direct connected (to 80A)</li> <li>1, 3 &amp; 4 wire devices</li> <li>Import, export and tariff measurements.</li> <li>M-Bus, Modbus, IR communication</li> <li>MID certified</li> </ul>			
<b>Wall Box (Terra)</b>	<ul style="list-style-type: none"> <li>MID certified internal Meter (Modbus TP &amp; TCP/IP)</li> </ul>			
<b>Energy Module (EM/S3.16.1)</b>	<ul style="list-style-type: none"> <li>Current measurement (to 20A, TRMS)</li> <li>Measured energy and power consumption</li> <li>Instrument values (U, I, f, Pf)</li> </ul>		<ul style="list-style-type: none"> <li>ABB Load Control function (Client)</li> </ul>	<a href="#">Link</a>
<b>Switch Actuator with Energy Function (SA/Sx.16.6.2)</b>	<ul style="list-style-type: none"> <li>Current measurement (to 20A, sinusoidal)</li> <li>Calculated energy and power consumption</li> </ul>		<ul style="list-style-type: none"> <li>Load switching (to 16A)</li> <li>ABB Load Control function (Server)</li> </ul>	<a href="#">Link</a>
<b>Switch Actuator (SA/Sx.x.x.2)</b>			<ul style="list-style-type: none"> <li>Load switching (to 16A)</li> <li>ABB Load Control function (Server)</li> </ul>	<a href="#">Link</a>
<b>Energy Actuator (SE/S3.16.1)</b>	<ul style="list-style-type: none"> <li>Current measurement (to 20A, TRMS)</li> <li>Measured energy and power consumption</li> <li>Instrument values (U, I, f, Pf)</li> </ul>		<ul style="list-style-type: none"> <li>Load switching (to 16A)</li> <li>ABB Load Control function (Client/Server)</li> </ul>	<a href="#">Link</a>
<b>Boiler/Chiller Interface (BCI/S 1.1.1)</b>			<ul style="list-style-type: none"> <li>Demand dependent interface to heat/cooling generation (0-10V, relay)</li> </ul>	

	Measure & collect	Visualize & analyze	Control & optimize	More detailed information
<b>Heating/Cooling Circuit Controller (HCC/S2.x.x.1)</b>			● • Demand dependent control of flow temperature	<a href="#">Link</a>
<b>Dali Gateway Premium (DG/Sx.64.5.1)</b>			● • ABB Load Control function (Server) • Standby shutdown of the ballast	<a href="#">Link</a>
<b>Modbus KNX Gateway (MG/S11.100.1.1)</b>	● • Universal communication interface Modbus to KNX (bidirectional) • Up to 100 data points and devices			
<b>Binary Input (BE/Sx.x.2.1)</b>	● • S0 impulse detection			<a href="#">Link</a>
<b>Meter Interface Module (ZS/S1.1)</b>	● • IR to KNX Interface for ABB EQ Meters (A & B series) • Energy consumption, power & instantaneous values (U, I, f, Pf)			<a href="#">Link</a>
<b>EQmatic Energy Analyzer (QA/S3.xx.1)</b>	● Data Logger and communication interface to M-Bus metering devices (unidirectional) • M-Bus (16 & 64 devices)	● • Web user interface provides graphical analysis functions, e.g., historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups, etc. • Data stored locally; no cloud connection required		
<b>ControlTouch (CT/S2.1)</b>		● • Visualization for smartphones, tablets and Windows computers (iOS and Android app) • Visualize energy values as graphs	● • Maximize use of self-generated energy and grid capacity	
<b>IP Router, Secure (IPR/S3.5.1)</b>	● • Communication interface KNX (TP) to KNX (IP)			

	Measure & collect	Visualize & analyze	Control & optimize	More detailed information
<b>Application Controller (AC/S1.x.1)</b>	<ul style="list-style-type: none"> <li>Communication interface to HVAC components               <ul style="list-style-type: none"> <li>KNX</li> <li>BACnet (500 Datapoints)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Web-based user interface monitoring (graphical functions)</li> </ul>	<ul style="list-style-type: none"> <li>Demand dependent optimization of KNX HVAC installation</li> </ul>	
<b>ABB Ability™ Building Analyzer</b>	<ul style="list-style-type: none"> <li>Building Edge, MATRIX or NEXUS as data source</li> </ul>	<ul style="list-style-type: none"> <li>Tracks building and utility data on cloud level</li> <li>Advanced monitoring and targeting functions</li> <li>Multi-site buildings</li> </ul>		
<b>RoomTouch 5" (RT/U5.x.1-xxx)</b>		<ul style="list-style-type: none"> <li>Display element available to visualize energy values</li> </ul>		
<b>SmartTouch 10" (ST/U10.x.1-xxx)</b>		<ul style="list-style-type: none"> <li>Display element available to visualize energy values</li> </ul>		
<b>SCU 100/200</b>	<ul style="list-style-type: none"> <li>Communication interface to Modbus Meters, CMS Sensors and pulse meters</li> </ul>	<ul style="list-style-type: none"> <li>Web user interface provides graphical analysis functions</li> <li>Data stored locally; no cloud connection required</li> </ul>	<ul style="list-style-type: none"> <li>Load shedding logics</li> </ul>	<a href="#">Link</a>
<b>EisBaer SCADA</b>	<ul style="list-style-type: none"> <li>Multiprotocol Gateway to common field buses and metering systems</li> </ul>	<ul style="list-style-type: none"> <li>Visualization and automation Software.</li> </ul>	<ul style="list-style-type: none"> <li>Peak Load Shedding</li> <li>Dynamic Load Management (DLM)</li> </ul>	<a href="#">Link</a>