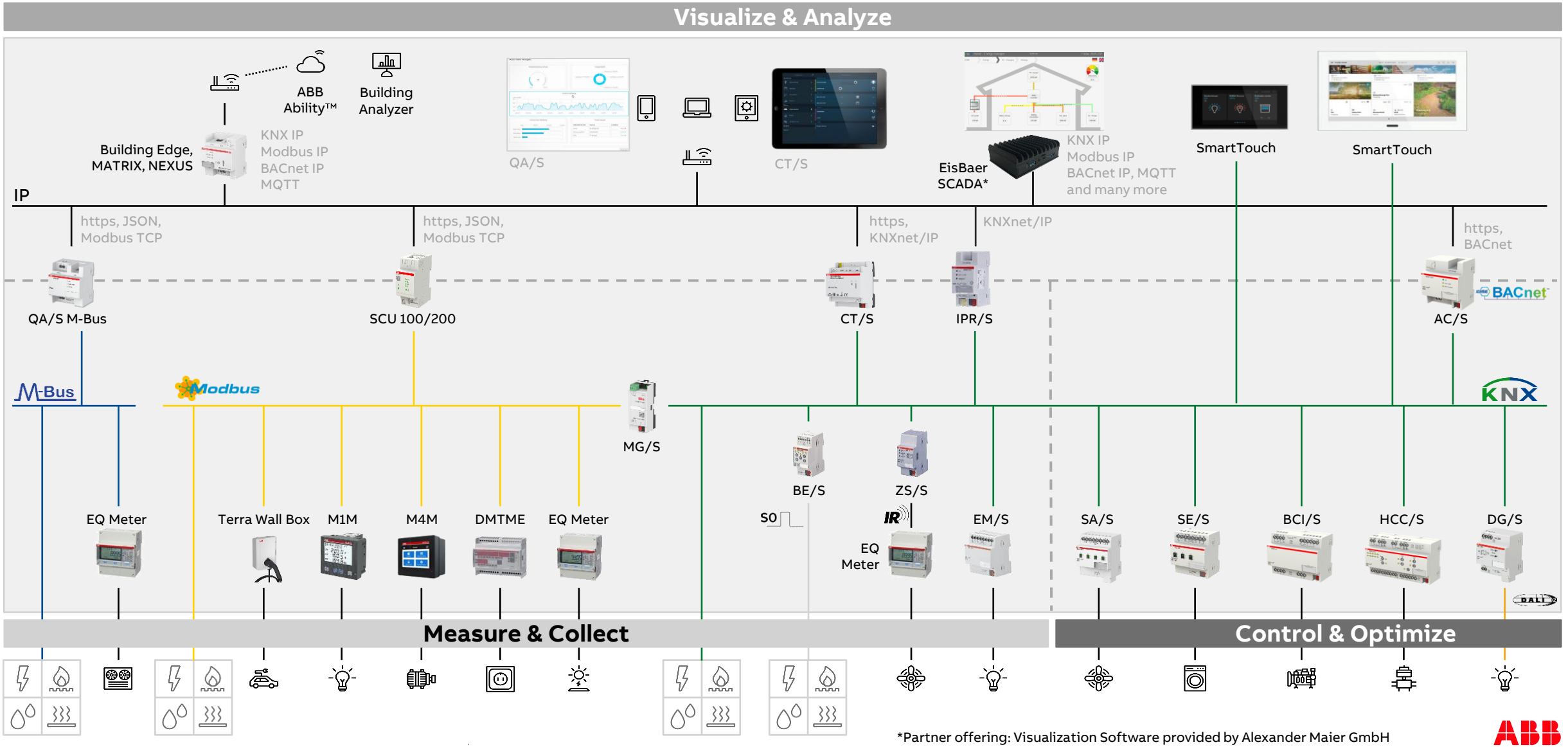
Electricity Gas Water Heat

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
EQ Meters A, B, C Series	• Transformer and direct connected (to 80A) • 1, 3 & 4 wire devices • Import, export and tariff measurements. • M-Bus, Modbus, IR communication • MID certified			
Wall Box (Terra)	• MID certified internal Meter (Modbus TP & TCP/IP)			
Energy Module (EM/S3.16.1)	• Current measurement (to 20A, TRMS) • Measured energy and power consumption • Instrument values (U, I, f, Pf)		• ABB Load Control function (Client)	Link
Switch Actuator with Energy Function (SA/Sx.16.6.2)	• Current measurement (to 20A, sinusoidal) • Calculated energy and power consumption		• Load switching (to 16A) • ABB Load Control function (Server)	Link
Switch Actuator (SA/Sx.x.x.2)			• Load switching (to 16A) • ABB Load Control function (Server)	Link
Energy Actuator (SE/S3.16.1)	• Current measurement (to 20A, TRMS) • Measured energy and power consumption • Instrument values (U, I, f, Pf)		• Load switching (to 16A) • ABB Load Control function (Client/Server)	Link
Boiler/Chiller Interface (BCI/S 1.1.1)			• Demand dependent interface to heat/cooling generation (0-10V, relay)	

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Heating/Cooling Circuit Controller (HCC/S2.x.x.1)			• Demand dependent control of flow temperature	Link
Dali Gateway Premium (DG/Sx.64.5.1)			• ABB Load Control function (Server) • Standby shutdown of the ballast	Link
Modbus KNX Gateway (MG/S11.100.1.1)	• Universal communication interface Modbus to KNX (bidirectional) • Up to 100 data points and devices			
Binary Input (BE/Sx.x.2.1)	• S0 impulse detection			Link
Meter Interface Module (ZS/S1.1)	• IR to KNX Interface for ABB EQ Meters (A & B series) • Energy consumption, power & instantaneous values (U, I, f, Pf)			Link
EQmatic Energy Analyzer (QA/S3.xx.1)	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		
ControlTouch (CT/S2.1)		• 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	
IP Router, Secure (IPR/S3.5.1)	• Communication interface KNX (TP) to KNX (IP)			

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Application Controller (AC/S1.x.1)	Communication interface to HVAC components • KNX • BACnet (500 Datapoints)	• Web-based user interface monitoring (graphical functions)	• Demand dependent optimization of KNX HVAC installation	
ABB Ability™ Building Analyzer	• Building Edge, MATRIX or NEXUS as data source	• Tracks building and utility data on cloud level • Advanced monitoring and targeting functions • Multi-site buildings		
RoomTouch 5" (RT/U5.x.1-xxx)		• Display element available to visualize energy values		
SmartTouch 10" (ST/U10.x.1-xxx)		• Display element available to visualize energy values		
SCU 100/200	• Communication interface to Modbus Meters, CMS Sensors and pulse meters	• Web user interface provides graphical analysis functions • Data stored locally; no cloud connection required	• Load shedding logics	Link
EisBaer SCADA	• Multiprotocol Gateway to common field buses and metering systems	• Visualization and automation Software.	• Peak Load Shedding • Dynamic Load Management (DLM)	Link