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Any protocol to IEC 61850 gateway

JPEmbedded's IEC 61850 Gateway enables communication between the Intelligent Electronic Devices (IED's) operating in IEC 61850 networks and other devices which do not support this standard. It converts the most popular protocols like Modbus, 60870-5-103, 60870-5-104, DNP3, MQTT to IEC 61850. Gateway may be ordered as a standalone product, easily mountable at din-rail or, as a hardware module to integrate in the device.

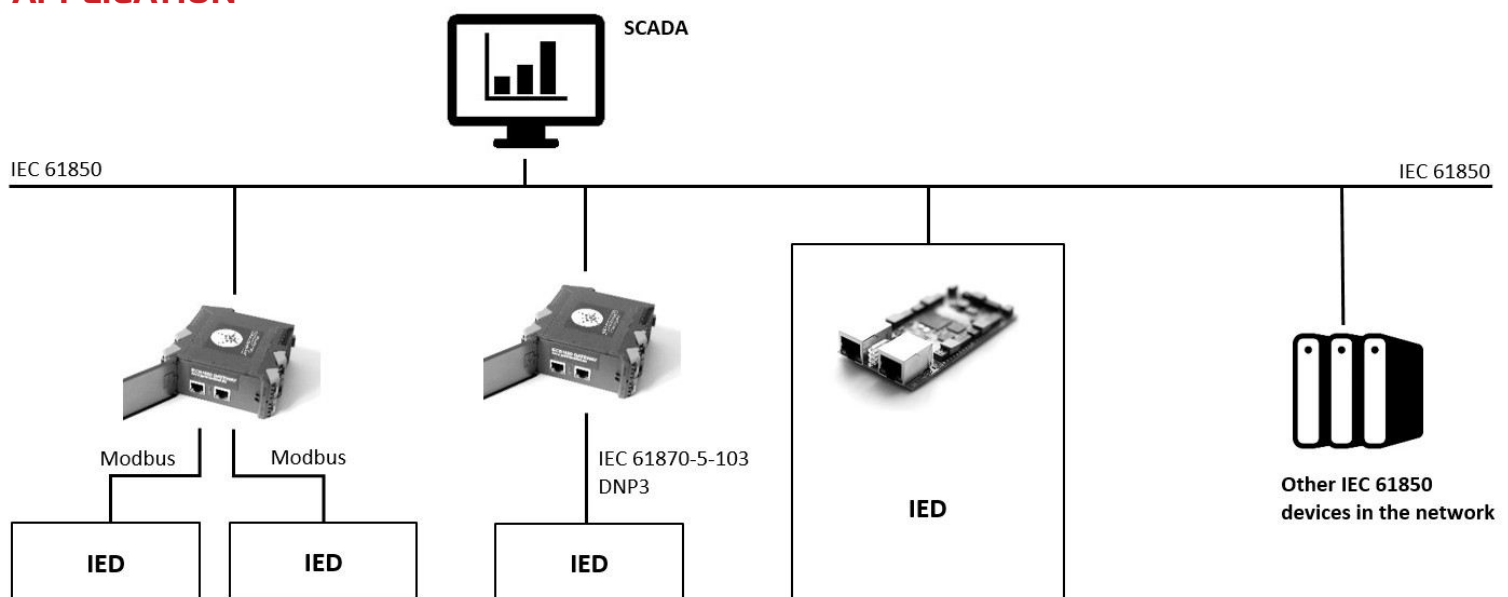
IEC 61850 is an international standard describing data model and communication services for power grid devices. IEC 61850 improves interoperability between systems provided by diverse manufacturers.

KEY FEATURES

- Conversion of various protocols (Modbus RTU, Modbus TCP, IEC 60870-5-103, IEC 60870-5-104, DNP3, MQTT, Profinet) to IEC 61850.
- Certified IEC 61850 stack.
- Support of MMS, GOOSE and SV communication.
- Secure communication according to IEC 62351.
- Different physical interfaces: CAN, I2C, SPI, RS 485, Ethernet.
- Manageable switch with two ports.

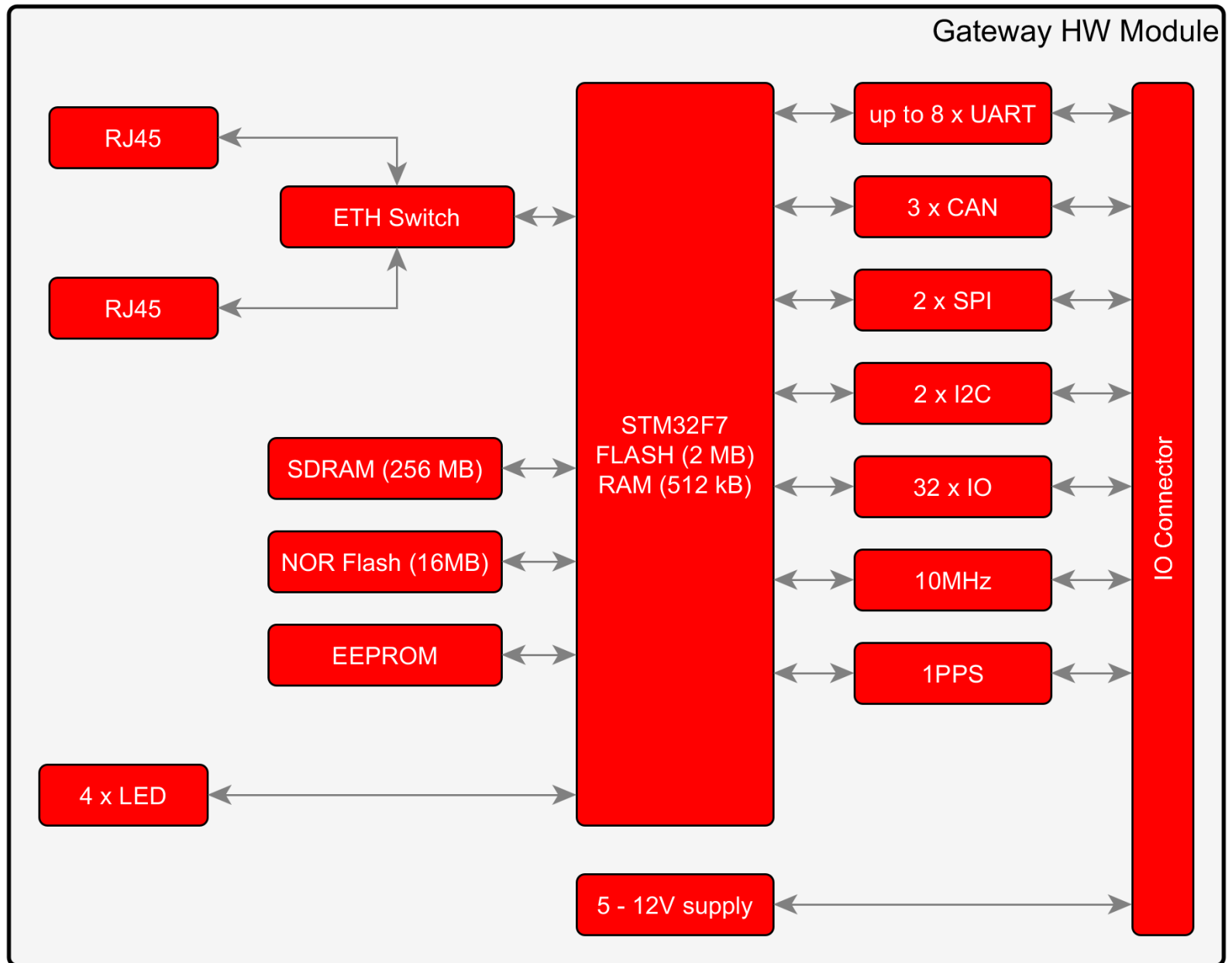


APPLICATION



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SYSTEM ARCHITECTURE



PROTOCOLS

IEC 60870-5-103 IEC 60870-5-104 DNP 3	Modbus TCP Modbus RTU	MQTT PROFINET
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TECHNICAL SPECIFICATION

<p>System</p> <p>CPU STM32F7, 216MHz</p> <p>Memory 16MB SDRAM 16MB Nor Flash 2MB Nand Flash</p> <p>OS <u>FreeRTOS</u></p> <p>LED 4 configurable LEDs</p>	<p>Inputs and outputs</p> <p>UART x 2 CAN x 2 SPI x 2 I2C x 2 SD USB AB GPIO x 32 1 PPS signal 10 MHz signal</p>	<p>Mechanical</p> <p>Casing dim. 110x45x120 mm Installation DIN-Rail mount PCB dim. 49x18x96 mm</p> <p>Power supply 12V - 50V DC 110V-220V AC</p> <p>Environmental Operating Temp. -20÷60°C Storage Temp. -30÷80°C</p>
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