

JPEMBEDDED
Embedding ideas

SMART GRID / IOT PROTOCOL CONVERTER

JPEmbedded's protocol converter enables the communication between the IoT and Intelligent Electronic Devices (IEDs). It converts the most popular protocols like MQTT, Modbus, IEC 61850, or DNP3. The converter may be ordered as a standalone gateway, easily mountable at din-rail or, as a hardware module to integrate into the device.

KEY FEATURES

- Any to any protocol converter.
- Conversion of various protocols: MQTT, Modbus RTU, Modbus TCP, IEC 61850, DNP3, IEC 60870-5-103, IEC 60870-5-104.
- Different physical interfaces: CAN, I2C, SPI, RS 485, Ethernet.
- Manageable switch with two ports.
- User-friendly mapping and configuration interface (dedicted application - Drosera).
- Available in various software and hardware versions.

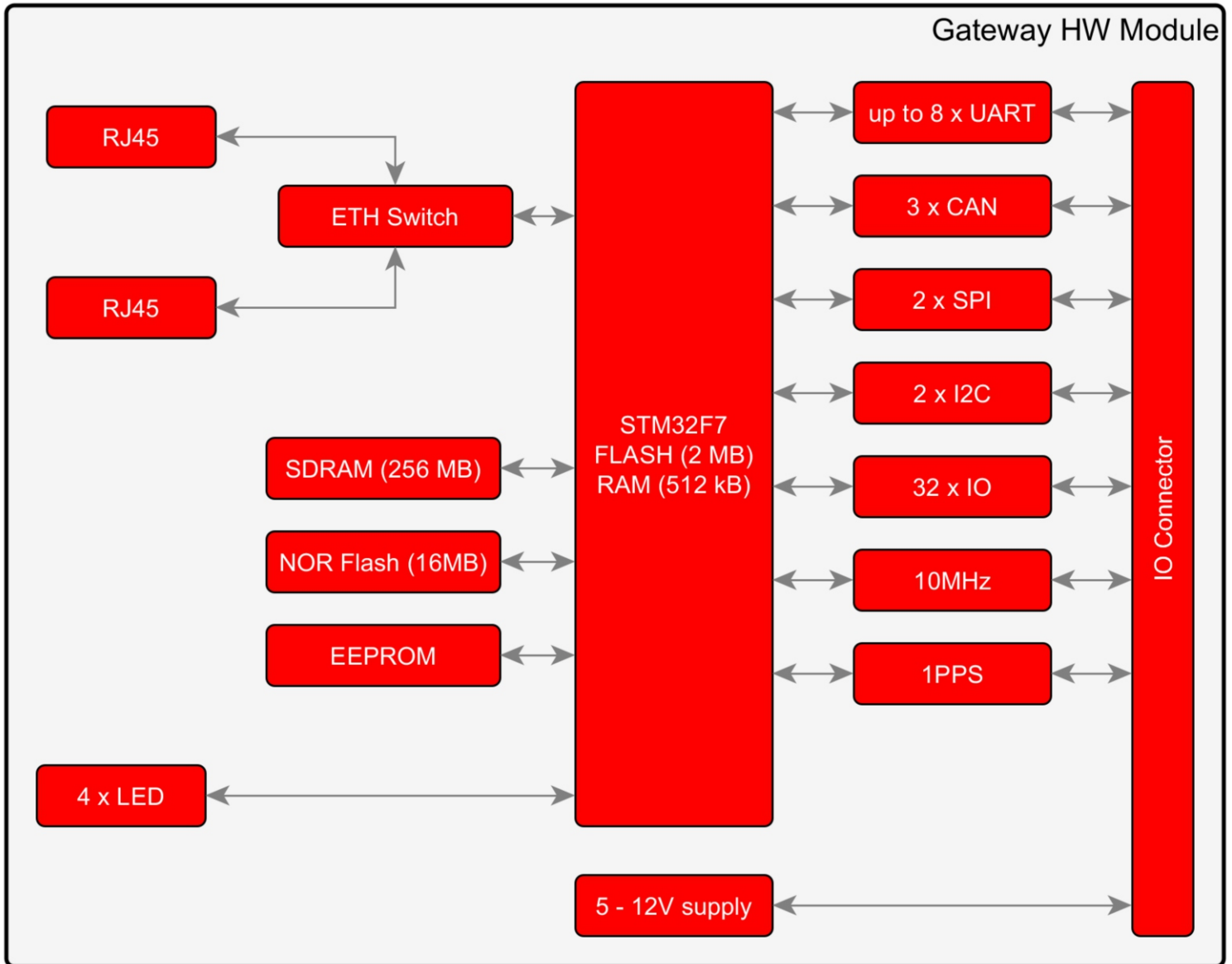


JPE APIS protocol converter - standalone version

DEDICATED MAPPING APPLICATION

The Dedicated Drosera application allows simple and fast configuration of JPEmbedded protocol converters. This tool is addressed especially to integrators and device manufacturers and does not require any programming knowledge. The intuitive user interface provides access to configuration and mappings along with performing the operations necessary to establish reliable communication between JPEmbedded's gateways and third-party devices.

APIS PROTOCOL CONVERTER - SYSTEM ARCHITECTURE



PROTOCOLS

MQTT, IEC 61850, DNP3, Modbus RTU, Modbus TCP, IEC 60870-5-101, IEC 60870-5-103, IEC 60870-5-104

TECHNICAL SPECIFICATION

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



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