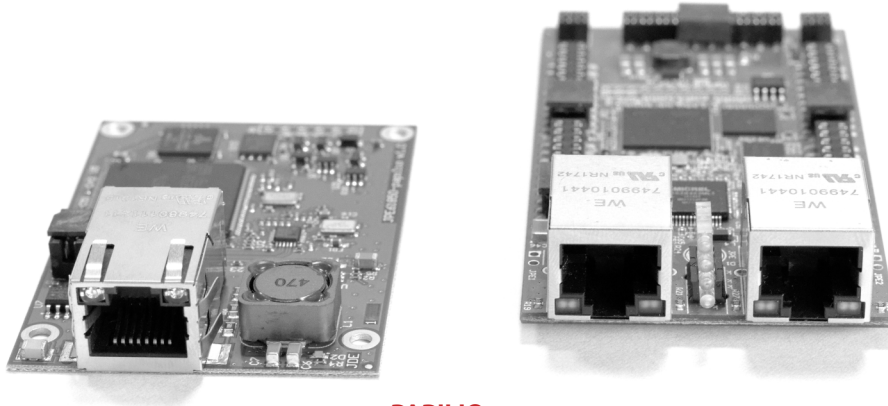


## HARDWARE PROTOCOL CONVERTERS

When the integration of an external software communication library is not an option for the customer, hardware modules might be the fastest way of plugging the IED deployed in the field into e.g. IEC 61850 network.

Our offering includes a range of protocol converters. They could be used as standalone devices with housing, mounted on din rail or a PCB integrated within customer product. Depending on the module type, feature set, and quantities the price of a single module could start at 99 EUR.



**PAPILIO**

**APIS**

|                                     |                                                                        |                                                                                           |
|-------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| MCU                                 | STM32F7 (216MHz)                                                       | STM32F7 (216MHz)                                                                          |
| Memory                              | 8MB SDRAM<br>2MB Flash<br>4KB EEPROM                                   | 16MB SDRAM<br>16MB Flash<br>4KB EEPROM                                                    |
| Operating System                    | FreeRTOS                                                               | FreeRTOS                                                                                  |
| Ethernet ports                      | 1                                                                      | 2                                                                                         |
| I/O ports                           | UART x1                                                                | UART x2<br>CAN x2<br>SPI x2<br>I2C x2<br>SDIO<br>USB<br>GPIO x32<br>1 PPS                 |
| Protocol conversion<br>(Any to any) | IEC 61850<br>DNP3<br>MQTT<br>ModbusRTU<br>ModbusTCP<br>IEC 60870-5-103 | IEC 61850<br>DNP3<br>MQTT<br>ModbusRTU<br>ModbusTCP<br>IEC60870-5-103<br>Custom protocols |
| Redundancy                          | no                                                                     | PRP                                                                                       |
| User App                            | Drosera App                                                            |                                                                                           |

For more informations, licensing details, price quotation requests, please contact JPEmbedded:  
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