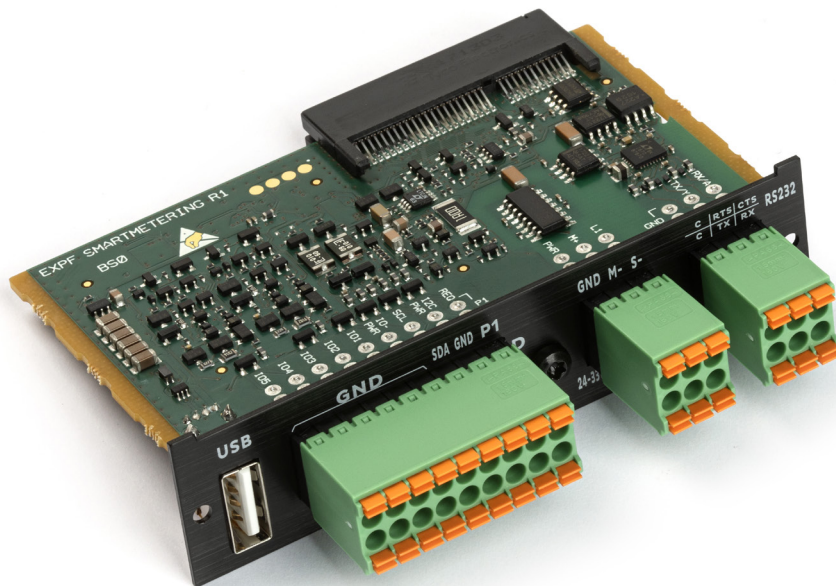


OPTION

# CloudGate

## SMART METERING EXPANSION CARD



NEW

A CloudGate expansion card that covers all your wired building interface needs

- Modbus interface
- M-Bus interface
- P1/DSMR interface
- I2C sensor interface
- USB interface
- 5 x configurable GPIO

# OPTION

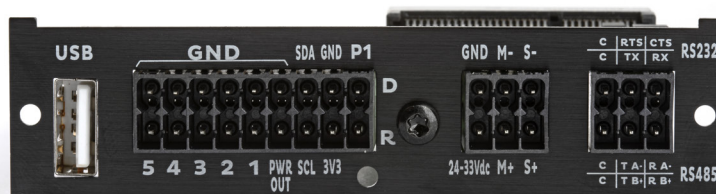
## Ideal for Smart building & energy optimization

Monitoring energy production and consumption in a building has never been easier with the CloudGate Smart Metering card.

Not only can it interface with all wired interfaces that are used by meters, it can also monitor critical sensors, analog or digital inputs and trigger digital outputs.

This makes it an ideal card to be used in Smart Building cases where it can optimally use the other advantages of the CloudGate IoT gateway platform such as a combination with wireless connectivity cards (LoRaWAN, Zigbee, wM-Bus, BLE...), an interface to the BACnet building management system, remote access etc

Technical Specifications	
Serial port	<ul style="list-style-type: none"> <li>• (6-pins) 2kV galvanically isolated</li> <li>• RS232 (C/RX/TX/RTS/CTS/GND) – 500Kbaud max or</li> <li>• RS422 or RS485 (full or half duplex A/B/GND)</li> <li>• switch for RS485 termination available in the UI</li> </ul>
Mbus port	<ul style="list-style-type: none"> <li>• Mbus Master                             <ul style="list-style-type: none"> <li>• up to 250 loads with 30V power supply</li> <li>• up to 64 unit loads with 24V power supply</li> </ul> </li> <li>or</li> <li>• Mbus Slave</li> <li>• Power supply + GND pin for Mbus master. These pins are also powering CloudGate so no separate power supply needed anymore.</li> </ul>
IO port	<ul style="list-style-type: none"> <li>• 12 pins connector for wired interfaces</li> <li>• interface 3.3V eg for environmental sensors in electricity cabinet (temp, humidity etc) - 4 pins</li> <li>• 5 multi-purpose IO's eg to monitor alarms in electricity cabinet or to drive door opening/ventilation relays - 11 pins                             <ul style="list-style-type: none"> <li>• Digital input (0-30V) (including dry-contact pulse counter)</li> <li>• Analog input (0-10V)</li> <li>• Current Loop input (4-20mA)</li> <li>• SO pulse-counter input</li> <li>• Digital output (0-3.3V)</li> <li>• Open Drain output (&lt;250mA, 0-30V)</li> </ul> </li> <li>• P1 interface (for electricity meters in BE/NL) - 3 pins</li> </ul>
USB 2.0 port	



Product	PN
Smart Metering expansion card	CG1124-12154