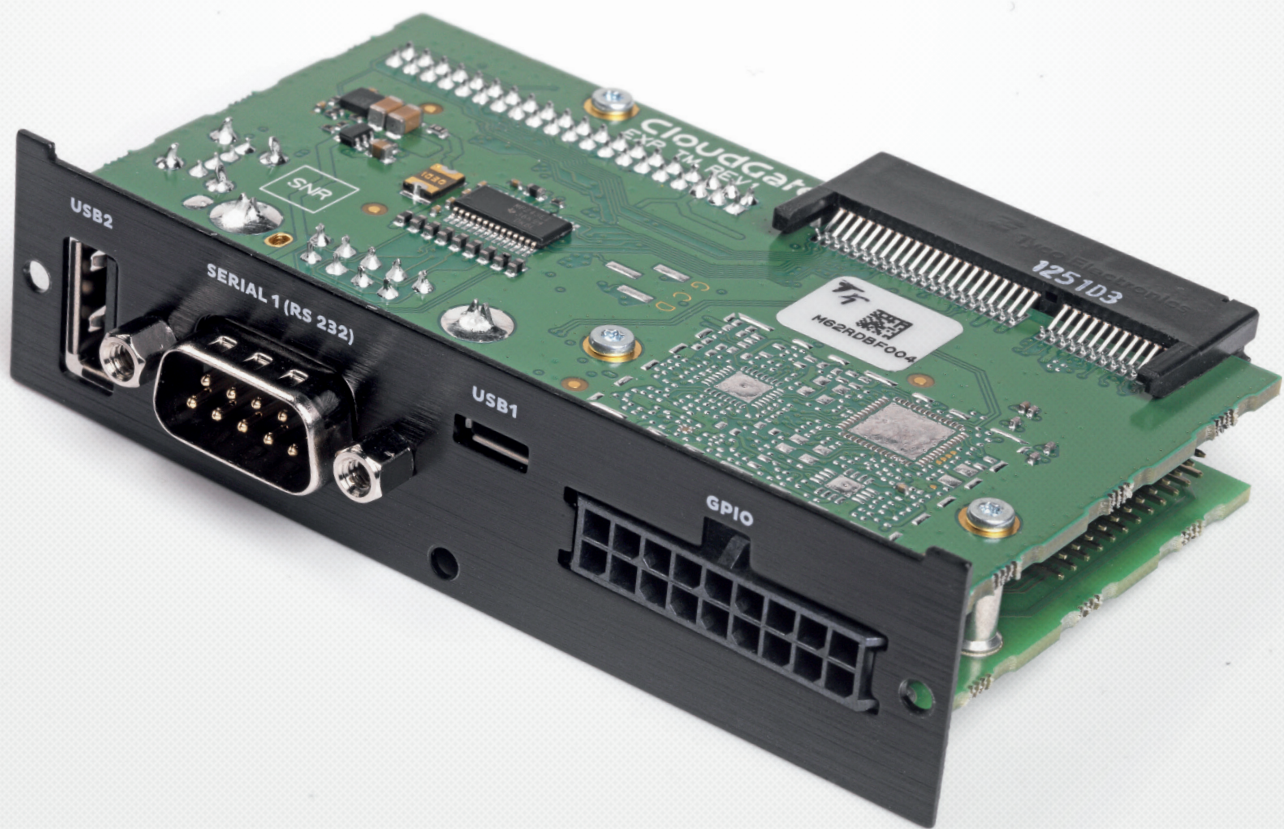# CloudGate

## TELEMATICS CARD



## CONNECTING THINGS
### to the Cloud

- Adds flexible I/O and connectivity for industrial telematics applications to CloudGate
- Built in 3 axis accelerometer for movement detection and other applications
- Dual SIM card reader for backup or roaming SIM
- Built in microcontroller offloads all I/O from CloudGate

# CloudGate
## TELEMATICS CARD

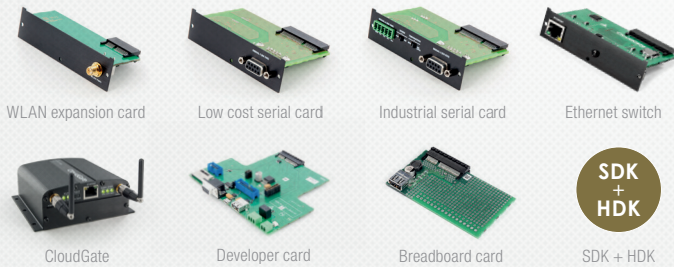**EXPAND THE FUNCTIONALITY**
of CloudGate

The Telematics Card allows the CloudGate Intelligent M2M Gateway to be used in advanced industrial telematics applications. The board can accept a range of Option or 3rd party developed I/O expanders that match the card and I/O connector to specific applications.

The base card (CG1106) adds a 3 axis accelerometer with hardware motion detection, dual SIM slots for a backup or roaming SIM card as well as the primary SIM card, USB and USB on the go ports and a DTE DB9 serial port with power over serial support.

The optional I/O expander piggy back board exposes a range of different I/O options including a second serial port, analog and digital inputs and digital outputs. Using different I/O expanders different levels of isolation and voltage ranges can be achieved. I/O Expander including CAN bus is also available. Other I/O configurations including relays, isolated inputs, etc. can be developed on request.

**Get your application on the market faster with CloudGate!**

## Also available

WLAN expansion card

Low cost serial card

Industrial serial card

Ethernet switch

CloudGate

Developer card

Breadboard card

**SDK + HDK**

SDK + HDK

| Features | Description |
|---|---|
| **Telematics base board (CG1106-11957)** | |
| USB type A | • Allows connection of USB 2.0 HS host devices<br>• Power switch and over-current protected |
| USB OTG micro-AB-type | • Allows connection of USB 2.0 HS host and slave devices<br>• Power switch and over-current protected |
| 9 pin DB9 serial | • RTS/CTS DSR/DTR flow control<br>• DCD/RI available on some models of CloudGate (inquire for more details)<br>• DTE interface<br>• Supply voltage available via pin 9 (jumper selectable) |
| 3 axis accelerometer | • ±2g/±4g/±8g, 3-Axis, 12-Bit Digital Accelerometer |
| 2 SIM sockets | • Adds SIM backup/roaming SIM functionality to CloudGate |
| Operating temperature | • -30 to +70°C |
| Humidity (operational) | • 5 to 95% RH, non-condensing |
| Storage temperature | • -40 to +85°C |

| | |
|---|---|
| **Telematics card with I/O Expander (CG5106-11983)** | |
| Telematics card with I/O Expander | • 'Molex type' connector, 18 pin<br>• 5 digital inputs (-/+ 32V)<br>• 2 analog inputs (0V to 10V, 12 bits resolution)<br>• 6 digital output (push-pull 0V to 3.3V OR open collector 0V to 30V/250mA@0.5V)<br>• Auxiliary serial port (RX/TX/CTS/RTS, takes 2 digital inputs & 2 digital outputs)<br>• 1-wire interface<br>• 4 GND |
| Other I/O Expander boards | • Other I/O configurations including relays, isolated inputs, CAN bus, etc. on request. |

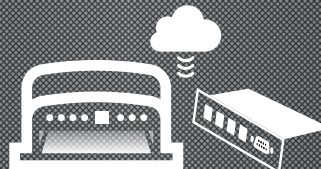| | |
|---|---|
| **Telematics card with CAN I/O Expander (CG5106-11984)** | |
| Telematics card with CAN bus & I/O Expander | • 'Molex type' connector, 18 pin<br>• 5 digital inputs (-/+32V)<br>• 2 analog inputs (0V to 10V, 12 bits resolution)<br>• 4 digital output (push-pull 0V to 3.3V OR open collector 0V to 30V/250mA@0.5V)<br>• Auxiliary serial port (RX/TX/CTS/RTS, takes 2 digital inputs & 2 digital outputs)<br>• 1-wire interface<br>• 4 GND<br>• CAN bus interface |
| Other I/O Expander boards | • Other I/O configurations including relays, isolated inputs, etc. on request. |

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DataSheet_v1.4

**1. Design and develop** powerful applications for industrial telematics solutions

**2. Configuration and any** custom middleware are automatically installed

**3. Device is ready to** connect Things to the Cloud