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

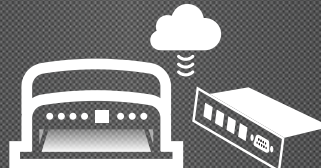| Features	Description
Telematics base board (CG1106-11957)	
USB type A	• Allows connection of USB 2.0 HS host devices • Power switch and over-current protected
USB OTG micro-AB-type	• Allows connection of USB 2.0 HS host and slave devices • Power switch and over-current protected
9 pin DB9 serial	• RTS/CTS DSR/DTR flow control • DCD/RI available on some models of CloudGate (inquire for more details) • DTE interface • 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 • 5 digital inputs (-/+ 32V) • 2 analog inputs (0V to 10V, 12 bits resolution) • 6 digital output (push-pull 0V to 3.3V OR open collector 0V to 30V/250mA@0.5V) • Auxiliary serial port (RX/TX/CTS/RTS, takes 2 digital inputs & 2 digital outputs) • 1-wire interface • 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 • 5 digital inputs (-/+32V) • 2 analog inputs (0V to 10V, 12 bits resolution) • 4 digital output (push-pull 0V to 3.3V OR open collector 0V to 30V/250mA@0.5V) • Auxiliary serial port (RX/TX/CTS/RTS, takes 2 digital inputs & 2 digital outputs) • 1-wire interface • 4 GND • CAN bus interface
Other I/O Expander boards	• Other I/O configurations including relays, isolated inputs, etc. on request.

www.option.com

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