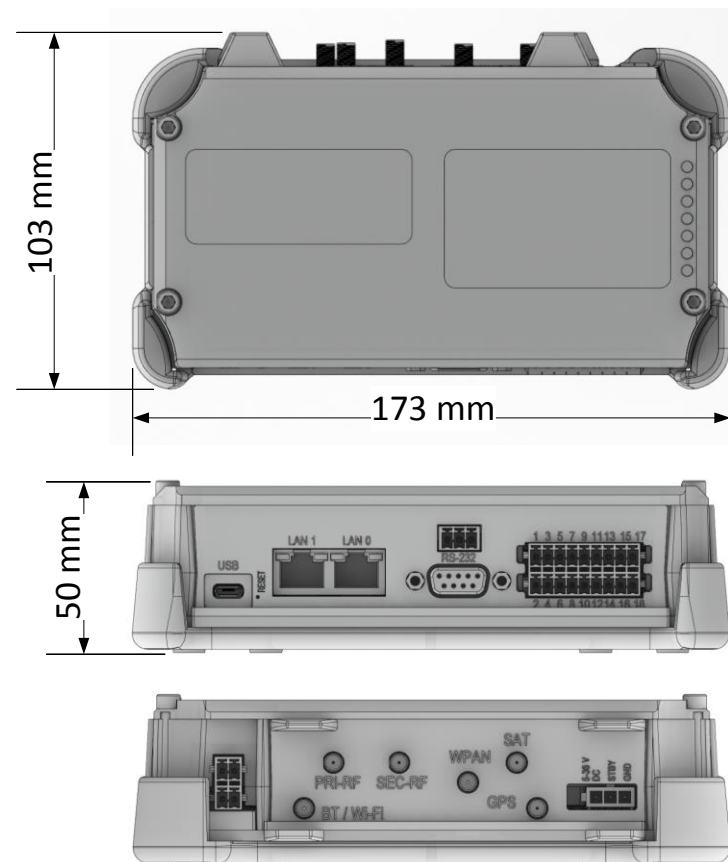


CTM-200 Cellular Wireless Gateway



Cellular

- LTE/AWS (700/1700/2100/2500 Mhz)
- WCDMA(HSPA/HSPA+) (850/1900 Mhz)
- EV-DO/CDMA BC0/BC1(850/1900 Mhz)
- Fall back to GPRS/EV-DO/CDMA where available
- MIMO support
- On board logic for always on, always connected operation.

Note: Cellular bands may vary based on type of cellular module installed

Wi-Fi/Bluetooth

- IEEE 802.11b,g,n compliant
- Bluetooth 2.1 +EDR, and BLE

Ethernet

- 2 x RJ45/Ethernet 10/100 base T
- switched or non-switched

Serial

- Serial RS-232 , DB-9 port
- 15kV ESD Protection to 61000-4-2
- 3 Pin second serial port RXD/TXD or Isolated RS485
- 2 x Inputs
- 2 x outputs

USB

- USB on the Go
- Micro USB Type AB style

Power

- 6-36 VDC with transient(spike) protection
- Ignition sense
- Locking 3 wire connection
- 300-400 mA @ 12V
- 20mA @ 12V (suspend mode)
- 2mA @ 12V (shutdown mode)

GPIO

8 Inputs (Analog or Digital)

- 2 x differential inputs that can be configured for voltage or 4-20 mA loop current sense,
- 4 x single ended inputs
- 0-10V dynamic range (12 bit resolution, 0.3% accuracy)
- 2 inputs available on RS-232

6 Digital Outputs

- 500 mA sink capability, overload protection
 - Open drain configuration
 - 1 x output power (fused) (6-36 V)
 - 2 outputs available on RS-232
- RFID reader input (Wiegand or Ibutton™)

CAN 2.0B Bus

- J1939(Heavy Duty), ISO15765-2 (OBD II)

Other

- 7 status LED's
- On board 3-axis accelerometer
- Real time clock with battery backup
- Shock absorbing elastomer mounting bracket

GPS

- 32 Channel
- GNSS(GPS, Glonass,Galileo,QZSS)
- Sensitivity: -162 dBm (tracking)
- Pos. accuracy (CEP50) 1.5 m
- TTFF Hot start 1 sec, cold start < 35 sec
- Supports A-GPS and Jammer rejection

Environmental

MIL-STD-810G:

- Clause 501.5: Procedure II – High Temp (+75°C operational test)
- Clause 502.5: Procedure II - Low Temp (-35°C operational test)
- Clause 503.5: Procedure I-C - Thermal Shock (+75°C to -35°C operational test)
- Clause 507.5: Procedure II - Humidity 95% RH operational test

MIL-STD-810F:

- Method 514.5C - Random Vibration freq. range 5-500 Hz, 0.008 g²/hz spectral density
- Method 516-I - Shock - 40g, 11ms, Saw-tooth pulse shape, 3 axis operational test

Certifications

- FCC, CE, IC, PTCRB, Applicable carriers