



# MachineGate Data Sheet

THE MACHINEGATE DATA SHEET PROVIDES THE DETAILED TECHNICAL INFORMATION AND HARDWARE SPECIFICATIONS FOR THE MACHINEGATE BASE UNIT.



## MachineGate:

- The MachineGate is a 4G multiband M2M gateway providing internet connectivity at LTE Cat 3 data rates.
- Customs code (used for shipping) for MachineGate is 8517620090.
- The base unit is designed around a main board and a WWAN module. Its main features are listed in the table below:

| Feature             | Description  |
|---------------------|--|
| WWAN LTE            | <ul style="list-style-type: none"> <li>• Supported frequency bands: 700/800/850/900/1800/1900/2100/2600/AWS (B1, 2, 3, 4, 5, 7, 8, 13, 17, 18, 19, 20)</li> <li>• Maximum connectivity speed: 100 Mbps down, 50 Mbps up (Cat 3) theoretical LTE data rates</li> </ul>  |
| WWAN 3G/2G          | <ul style="list-style-type: none"> <li>• 3G bands: UMTS/HSDPA/HSUPA/HSPA+: 850/900/1900/2100 MHz and AWS band (1700/2100 MHz) (B 1, 2, 4, 5, 8)</li> <li>• 2G bands: GSM/GPRS/EDGE: 850/900/1800/1900 MHz</li> <li>• Maximum connectivity speed DC-HSPA+: 42 Mbps (Cat 24) down and 5.76 Mbps (Cat 6) up</li> <li>• RX diversity: Simultaneous Equalization and Rx Diversity on all bands</li> </ul> |
| GPS                 | <ul style="list-style-type: none"> <li>• High sensitivity A-GPS /A-GLONASS receiver (SUPL 1.0 &amp; SUPL 2.0)</li> </ul>   |
| Antenna Connectors  | <ul style="list-style-type: none"> <li>• 1 x SMA: WWAN Main</li> <li>• 1 x SMA: WWAN Div/GPS</li> </ul>  |
| Ethernet            | <ul style="list-style-type: none"> <li>• 10/100Mb/s RJ45 Connector</li> </ul>  |
| Visual Indicators   | <ul style="list-style-type: none"> <li>• Seven 3 color LEDs showing system status and signal strength</li> </ul>   |
| SIM                 | <ul style="list-style-type: none"> <li>• USIM/SIM class B and class C</li> </ul>   |
| MicroSD Card Reader | <ul style="list-style-type: none"> <li>• For additional storage (FAT32). Located underneath the Cellular modem PCB inside the MachineGate.</li> </ul>  |
| Power Input         | <ul style="list-style-type: none"> <li>• DC input voltage: 9-33 V DC</li> <li>• Connector type: Micro-Fit 3.0™, Dual row, 4 circuits</li> </ul>  |



|                      |  |
|----------------------|--|
| Expansion Card Slots | <ul style="list-style-type: none"> <li>• Two expansion card slots (one at the front and one at the back side of the device)             <ul style="list-style-type: none"> <li>• Expansion boards for I/O functions, such as Serial, USB, GPIO, WLAN, Accelerometer, etc.</li> </ul> </li> </ul> |
| Metal Case           | <ul style="list-style-type: none"> <li>• Aluminum housing</li> <li>• Dimensions: 115 x 105 x 45 mm (excluding antenna connectors)</li> <li>• Weight: 304 g</li> <li>• Mounting: bulkhead - 6 x M4 mounting holes or DIN rail with adapter</li> </ul>   |
| Environmental        | <ul style="list-style-type: none"> <li>• Operating temperature: -30°C to 70°C (*)</li> <li>• Storage temperature: -40°C to 85°C</li> <li>• Humidity operational: 5% - 95% non condensing</li> </ul>  |
| Certification        | <ul style="list-style-type: none"> <li>• CE, FCC, IC, PTCRB, RCM (Australia)</li> </ul>  |



## MachineGate Mechanical Drawings:

