

5000 Series Product Line Spec Sheet



5000 networkfleet®

Networkfleet's 5000 series product line is designed to enable fleets to connect with every aspect of their vehicle operations. The 5000 series hardware offers affordable wireless coverage, transmitting vehicle location, performance, diagnostics (5500), and sensor event information for your fleet. The serial port* on the 5000 hardware also allows for seamless integration with compatible Garmin devices and NMEA feeds.

The 5000 series product line offers 24/7 visibility into fleet assets, which enables fleet managers to easily locate vehicles in real-time and view specific vehicle data such as current location, mileage, speed, fuel consumption, and diagnostic trouble codes — increasing response time and reducing operating costs.

Networkfleet is a universal solution, compatible on all light, medium, and heavy vehicles. It consists of an in-vehicle unit and an online application, all of which communicate on the AT&T Wireless GPRS data network.

The 5000 product line features two different automotive grade hardware devices:

- 5500 – The 5500 is compatible with Light and Heavy Duty vehicles with an OBD-II diagnostic link connector (cars and light trucks 1996 and newer) or J1708/J1939 6-pin or 9-pin diagnostic link connector (heavy trucks 1988 and newer).
- 5200 – The 5200 is universally compatible with all types of vehicles and it is compatible with any harness option designed to work with the 5000 product line. Regardless of the harness type used, the 5200 will not gather diagnostic information from the vehicle.

Features and Benefits:

- **Easy Installation:** Plug & play design provides for easy, quick installation without splicing wires.
- **Vehicle Diagnostics:** Remote diagnostics capabilities enable monitoring of diagnostic trouble codes, ignition status, speed, odometer, fuel efficiency and more.
- **Internal Antenna:** This hardware line comes standard with both the GPS and cellular antennas internal to the unit. An optional window-mount GPS antenna can be purchased and installed using the serial port on the 5000 series device.
- **Automatic Harness Detection:** The hardware is built with harness detection firmware so that either a light or heavy duty harness can be used with the 5500 or 5200.
- **Serial Port Functionality:** The serial port on the 5000 series product allows for integration with compatible Garmin devices or a constant NMEA data feed between the device and other devices in the vehicle.
- **Sensor Detection:** The 5000 series product line includes sensor ports for monitoring various voltage events occurring within the vehicle such as: PTO engagement/disengagement, secondary engine on/off, and door open/close.

* The optional window-mount GPS antenna, the modified Garmin FMI cable, or the NMEA cable cannot be used simultaneously. Only one accessory may be used at a time.



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Physical Specifications

| | |
|--------|---|
| Size | 5.17" L x 2.80" W x 1.04" H (131.41mm x 71.08mm x 26.39mm) |
| Weight | 4.8 oz (136.1 g) |

General Specifications

| | |
|-----------------------------------|--|
| Input Voltage | +8 to +30 VDC |
| Power Consumption | |
| Normal (key on) Operating Mode | 30 mA @ 14V 5500 Light, 5200 30 mA @ 24V 5500 Heavy |
| Sleep (key off) Mode | 16 mA @ 12V 5500 Light, 5200 30 mA @ 24V 5500 Heavy |
| Fault Protection | Reversed battery, over- voltage, loss-of-ground |
| Fuse | Internal 2.2 A trip point, self-resetting |
| Auxiliary/Debug Interface | 115200 baud serial (TTL levels) |
| Antennae | Internal GSM & GPS antennas |
| Energy Reserve | Loss of power detection circuit |
| Accelerometer | +/- 2 g |

Environmental Specifications

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|---------------|----------------|
| Temperature | |
| Operating | -30 C to +80 C |
| Non-Operating | -40 C to +90 C |
| Humidity | 10% to 90% RH |

Wireless Specifications

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|----------------------|--|
| Wireless | Internal Cinterion Wireless Modules EGS3 Modem GSM 850/900/1800/1900 MHz |
| Regulatory Approvals | FCC, Industry Canada |

GPS Specifications

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|-------------|--|
| Receiver | L1 Frequency (1575.42 MHz), 50 channels, continuous tracking receiver |
| Accuracy | Horizontal (< 5 meters @ 90%) |
| Acquisition | Cold Start < 32 sec. @ -146dBm Warm Start < 32 sec. @ -160dBm Hot Start < 1 sec. @ -160dBm |

Window-Mount GPS Antenna (Optional)

| | |
|-----------------------|---|
| GPS Specifications | See above |
| Size | 2.17" L x 1.65" W x 0.59" H (55.1mm x 42.0mm x 15.0mm) |

Diagnostic Specifications (5500 Only)

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|------------------------------------|---|
| Physical Layers | |
| 5500 with Light Duty Harness | SAE J1850 PWM (41.6 Kb/s) SAE J1850 VPW (10.4 Kb/s) ISO 9141-2 (10.4 Kb/s) ISO 14230 (KWP 2000, 12 Volt) ISO 15765 (CAN 2.0b, 250 Kb/s, 500 Kb/s) |
| 5500 with Heavy Duty Harness | SAE J1708 SAE J1939 |
| Application Layers | Software configurable |

Sensor/Serial Specifications

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|--------------------------------------|--|
| Sensor Input Voltage | -30 to +30 VDC |
| Sensor Detection Thresholds | Off (-3V < x < +3V) On (-24V < x < -5V or +5V < x < +24V) Undefined (-5V < x < -3V or +3V < x < +5V) |
| Serial External Power Capacity | 1 A @ 12V (max) |
| Serial Communication Interface | 115200 baud serial RS232 |