

**GIVENHANSCO INC.**

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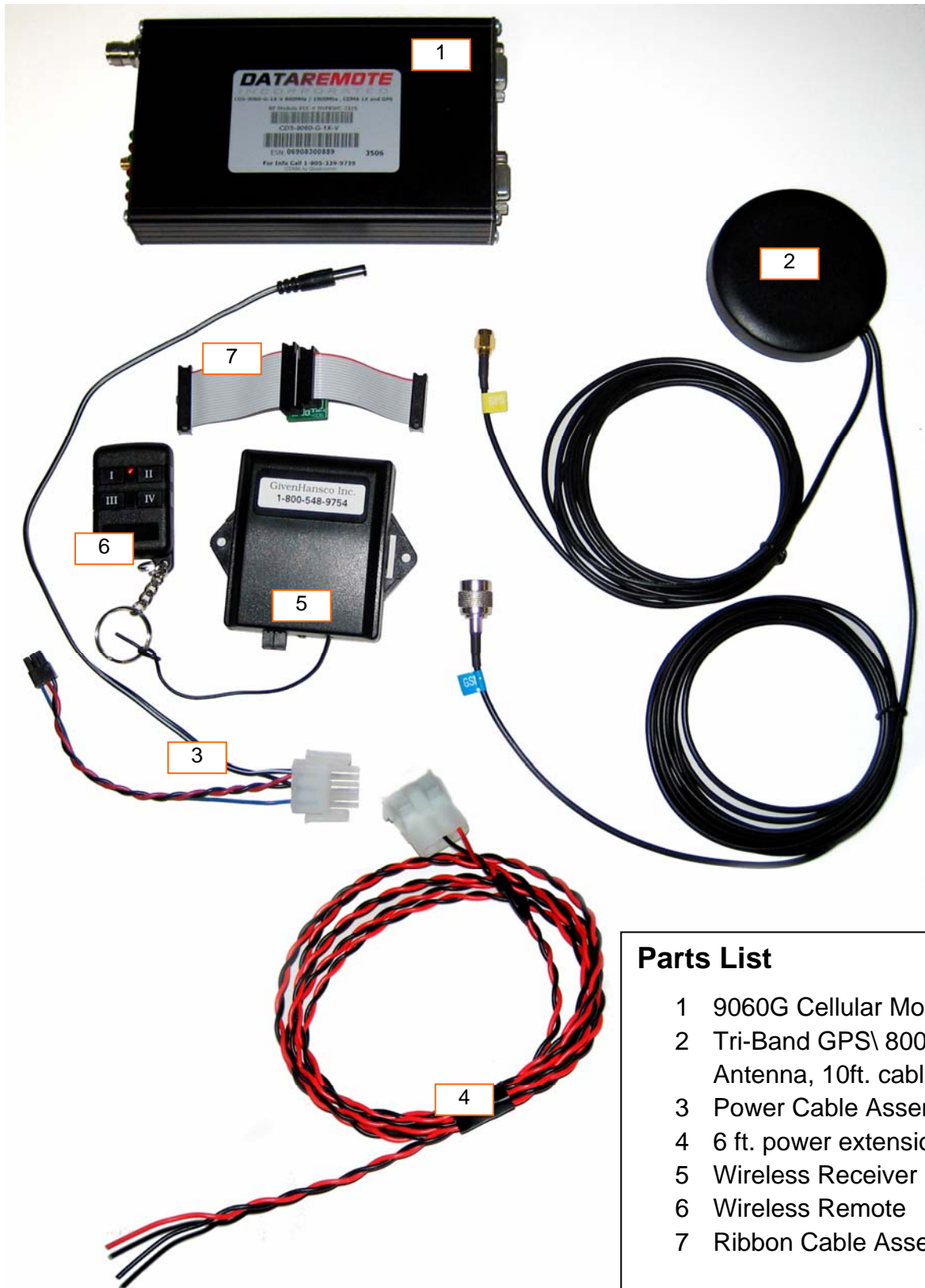
**CDS 9060G Cellular Modem**

# Quick Reference Guide



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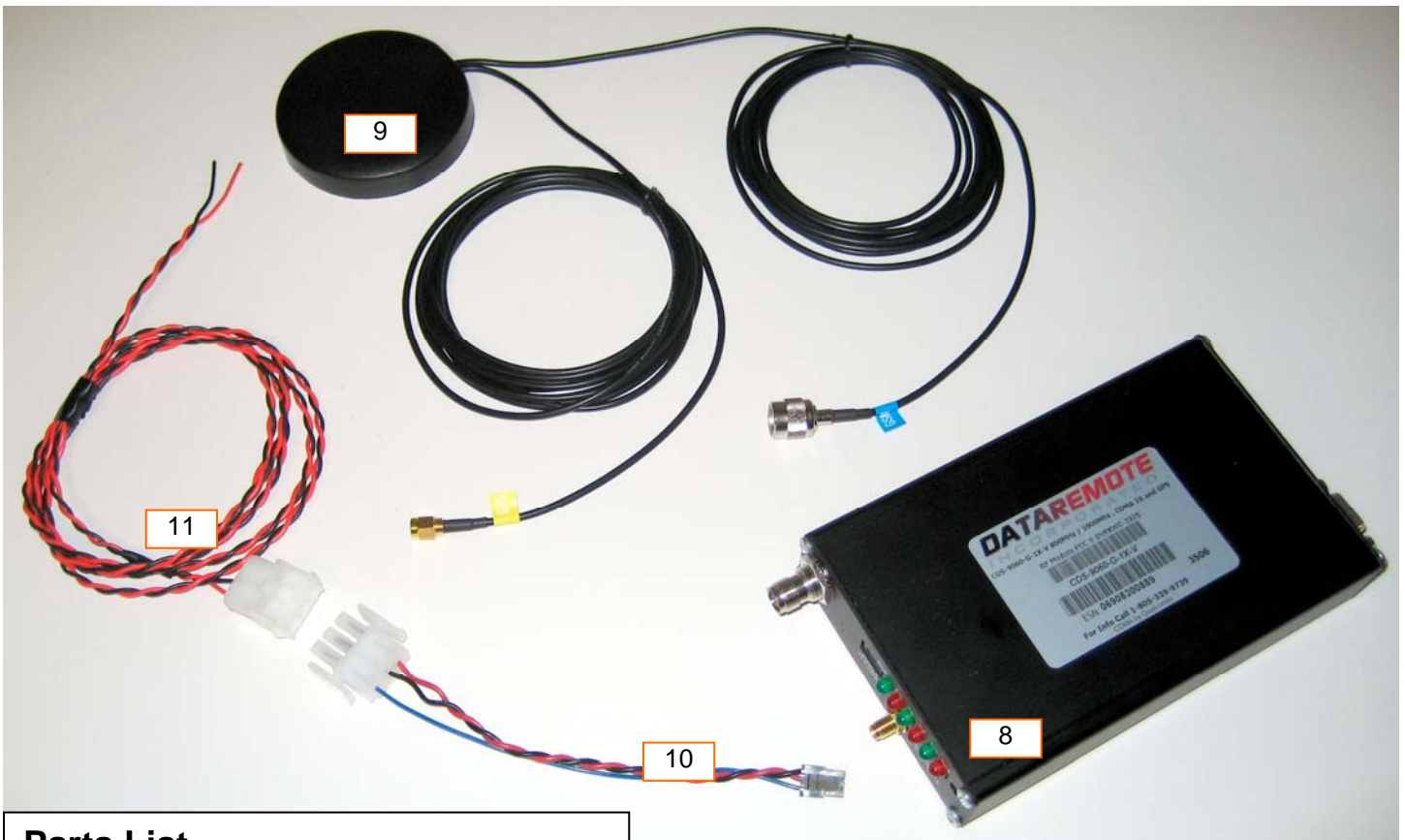
## GPS Parts (with optional status indicator)



### Parts List

- 1 9060G Cellular Modem
- 2 Tri-Band GPS\ 800 or 1900 MHz Antenna, 10ft. cable leads
- 3 Power Cable Assembly
- 4 6 ft. power extension cable
- 5 Wireless Receiver
- 6 Wireless Remote
- 7 Ribbon Cable Assembly

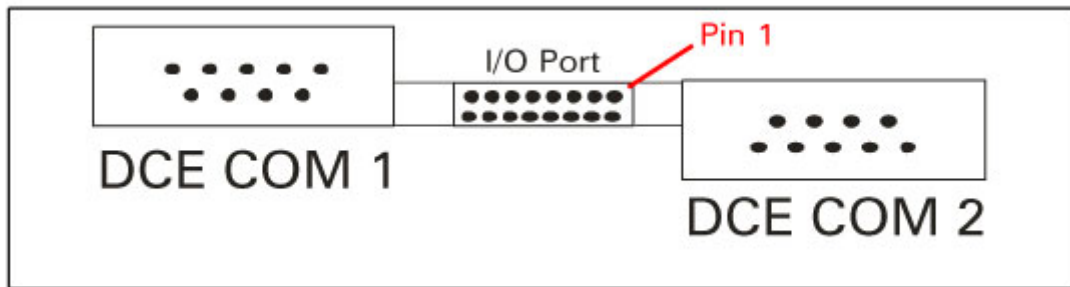
## GPS Parts (without optional status indicator)



### Parts List

- 8 9060G Cellular Modem
- 9 Tri-Band GPS\ 800 or 1900 MHz Antenna, 10ft. cable leads
- 10 Power Cable Assembly
- 11 6 ft. power extension cable

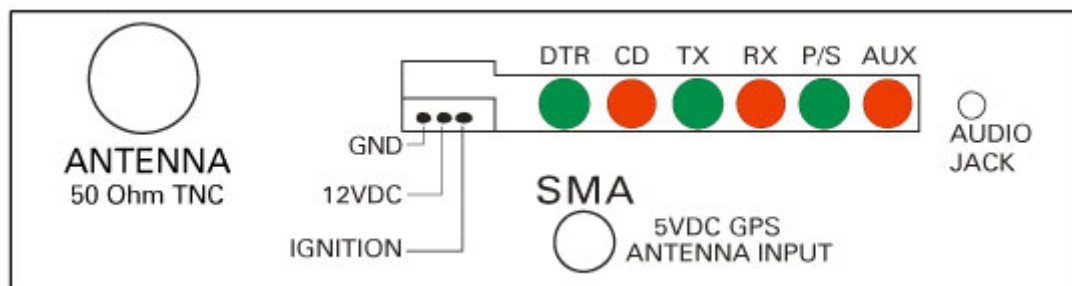
# Modem Layout



Rear View

## Connections

- DCE COM1 – RS232 Data Connection, used for programming modem
- DCE COM2 – Auxiliary Port (not used)
- I/O Port – 16 pin Programmable I/O header, used to connect status indicator (keyed)



Front View

## Connections

- Antenna – Analog antenna connection
- Power – GND (black), 12VDC (red), Ignition (blue - **not used**)
  - Power Requirements: 10.5-24 VDC @ 2 A (unregulated)
- SMA – GPS antenna connection
- Audio Jack – **Not Used**

## LED Functions

- Data Terminal Ready (DTR) - lit when there is a connection to COM1 (only lit during programming)
- Carrier Detect (CD) – lit when a connection to the network is made (should remain lit 5 minutes after power is applied to the modem)
- Transmit Data (TXD) – should blink when data is being transmitted
- Receive Data (RXD) – should blink when data is being received
- Power/Status (P/S) – Indicates mode: digital, analog, or no signal:
  - 1 blink/sec = CDMA mode with CDMA data available (**Correct Mode**)
  - 3 blinks/sec = Analog mode only
  - Long blink (500ms) = No service detected
- Auxilliary (AUX) – Blinks when modem command is being carried out

# Modem Assembly and Connections

## Status Indicators (optional)

If status indicators were included, assembly was completed at the factory, refer to diagram below to ensure correct assembly.



## Antenna and Modem Power Connections

Refer to diagram below for antenna and power connections



## Power Connections to Vehicle

Connect 6ft. power extension assembly to power cable connected to modem; keyed connector will only connect one way. Attached red wire to switched hot (12 VDC), and the black wire to ground.

Modem Power Requirements: 10.5-24 VDC @ 2 A (unregulated)







Modem is mounted under the dash and switched power is connected to the ignition. Common placement for front discharge trucks.



\*\*These are suggested mounting locations. Modems can be mounted anywhere in the truck where they will not be disturbed.

## Antenna Placement

**Antenna needs to mount so that it has clear view of the sky.**

Mount the antenna low on the windshield or on top of the dashboard. Common placement for rear discharge trucks.



Antenna mounted on the side window. Common placement for front discharge trucks.

