

# MT1200

## The Kantronics MT1200 Mobile Tracker:

A simple and affordable wireless modem with mobile-enhanced features and optional embedded GPS receiver.

Built on the proud heritage of the Kantronics KPC-3+, the very compact MT1200 Mobile Tracker allows fleet managers to monitor real-time vehicle or asset activity, while increasing profitability and accountability.

The MT1200 offers extended memory for GPS beacon log storage, PTT activated data burst, and a new Kantronics algorithm allowing variable rate beaconing based on speed and direction, saving valuable air time.

The MT1200, designed for large or small fleets provides the tools necessary for route optimization, traffic control, exception analysis and automated dispatch.

The MT1200 is available with an optional internal GPS receiver for convenience and reliability. It also works with external NMEA-0183 compatible GPS receivers. It supports popular Packet, KISS, XKISS, LineSub, TUP, POLL, and PING protocols and modes. The MT1200 comes standard with built-in telemetry features, including two analog inputs, three isolated digital inputs, and two control outputs.

Also built in are the Kantronics quality and reliability that have earned the respect of users all around the world.

### Applications

- Vehicle Tracking
- Traffic Control
- Public Safety
- Emergency Management
- Fleet Management
- Route Optimization
- Exception Analysis
- Mobile and Fixed Telemetry



### Increase Productivity

- Monitor routes and stops
- Monitor driver activities
- Improve response time
- Improve customer service
- Reduce overtime
- Validate service calls

### Increase Profitability

- Reduce fuel & maint. costs
- Reduce delays
- Reduce insurance rates
- Reduce operating costs
- Accurate billing

### Improve Accountability

- Decrease excessive speeds
- Improve safety
- Comply with regulations
- Eliminate paper logs

# Kantronics

[www.kantronics.com](http://www.kantronics.com)

## SPECIFICATIONS - KANTRONICS MT1200 Mobile Tracker

Dimensions (H x W x D)	0.95" x 4.9" x 3.0" (2.4 cm x 12.5 cm x 7.6 cm) (including mounting ears)
Weight	4.8 oz (0.136 kg)
Operating Temperature Range	-30° C to +70 ° C (-22° F to +158° F)
Operating Humidity	0 - 95% R.H. non-condensing at +60° C
Power Requirements	12 V nominal
GPS inactive	35 mA (LEDs on)
GPS active, no GPS antenna	65 mA (LEDs on)
GPS active, with GPS antenna	75 mA (LEDs on)
Standby	0.5 mA (typical, ignition off)
Power Plug	RIA Connect RIACON series, type 169, 3 pin (31169103)
Telemetry Plug	RIA Connect PlugCon series, type 374, 10 pin (ASP05110)
External Carrier Detect (XCD)	Active Low or Active High
PTT and Control Outputs	Open drain, +60 V dc max, 115 mA max
Audio Output Level	Continuously adjustable, 1 mV p-p to 1.7 V p-p
Output Impedance	600 Ω, ac coupled
Modulation	1200 bps FSK, half duplex BELL 202 (1200 Hz / 2200 Hz)
Audio Input	
Sensitivity	5 mV p-p
Dynamic Range:	70 dB
Input Impedance and type:	10 kΩ (600 Ω with jumper J3 connected), unbalanced
Max Input Voltage	±12 V dc; 35 V p-p sinusoidal
Modes of Operation	Packet, KISS, XKISS, LINESUB, MODEM, POLL, and TUP
Other Features	GPS Beacon, Remote Access, and Telemetry
GPS Capability	Works with optional internal GPS receiver or external NMEA-0183 compatible GPS receiver.



Rear view of the MT1200, showing the GPS antenna connector, the telemetry connector, the radio connector, and the power connector. The power connector includes an ignition sense line to turn off the MT1200 automatically when you turn off the vehicle, if you choose.

The MT1200 is available with an optional internal GPS receiver module. This means fewer cables to worry about!



The MT1200 internal GPS option includes this compact GPS antenna.

## SPECIFICATIONS - MT1200 Internal GPS Receiver Option

Type:	Trimble Lassen iQ GPS module
Operational (COCOM) Limits	
Altitude:	18,000 m
Velocity:	515 m/s
	Note: either may be exceeded, but not both.
Performance Specifications	
General:	L1 (1575.42 Mhz) frequency, C/A code, 12-channel, continuous tracking receiver.
Update rate:	1 Hz.
Accuracy:	
Horizontal:	< 5 m (50 %), < 8 m (90 %)
Altitude:	< 10 m (50 %), < 16 m (90 %)
Velocity:	0.06 m/s
PPS (static):	±50 ns
Acquisition	(Autonomous Operation in Standard Sensitivity Mode)
Reacquisition:	< 2 s (90 %)
Hot Start:	< 10 s (50 %), < 13 s (90 %)
Warm Start:	< 38 s (50 %), < 42 s (90 %)
Cold Start:	< 50 s (50 %), < 84 s (90 %)
	Cold start requires no initialization. Warm start implies last position, time, and almanac are saved by backup power. Hot start implies ephemeris also saved.

**Kantronics**  


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