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.

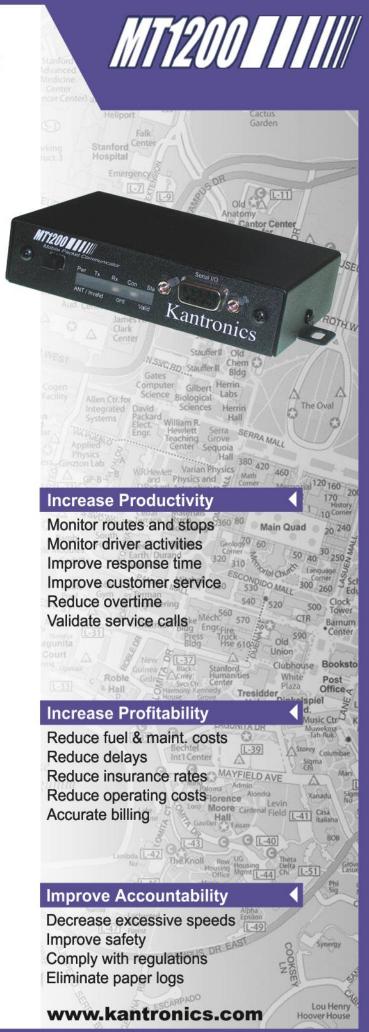
The MT1200 is available with an optional internal GPS receiver for convenience and reliability. It also works with external NMEA-0183 compatible GPS receivers. It supports popular Packet, KISS, XKISS, LineSub, TUP, POLL, and PING protocols and modes. The MT1200 comes standard with built-in telemetry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





SPECIFICATIONS - KANTRONICS MT1200 Mobile Tracker	
Dimensions (H \times W \times D)	0.95" x 4.9" x 3.0" (2.4 cm × 12.5 cm × 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 GPS inactive GPS active, no GPS antenna GPS active, with GPS antenna Standby	12 V nominal 35 mA (LEDs on) 65 mA (LEDs on) 75 mA (LEDs on) 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 Dynamic Range: Input Impedance and type: Max Input Voltage	5 mV p-p 70 dB 10 k Ω (600 Ω with jumper J3 connected), unbalanced ±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	
Туре:	Trimble Lassen iQ GPS module
Operational (COCOM) Limits Altitude: Velocity:	18,000 m 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: Altitude: Velocity: PPS (static):	< 5 m (50 %), < 8 m (90 %) < 10 m (50 %), < 16 m (90 %) 0.06 m/s ±50 ns
Acquisition Reacquisition: Hot Start: Warm Start: Cold Start:	(Autonomous Operation in Standard Sensitivity Mode) < 2 s (90 %) < 10 s (50 %), < 13 s (90 %) < 38 s (50 %), < 42 s (90 %) < 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.



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