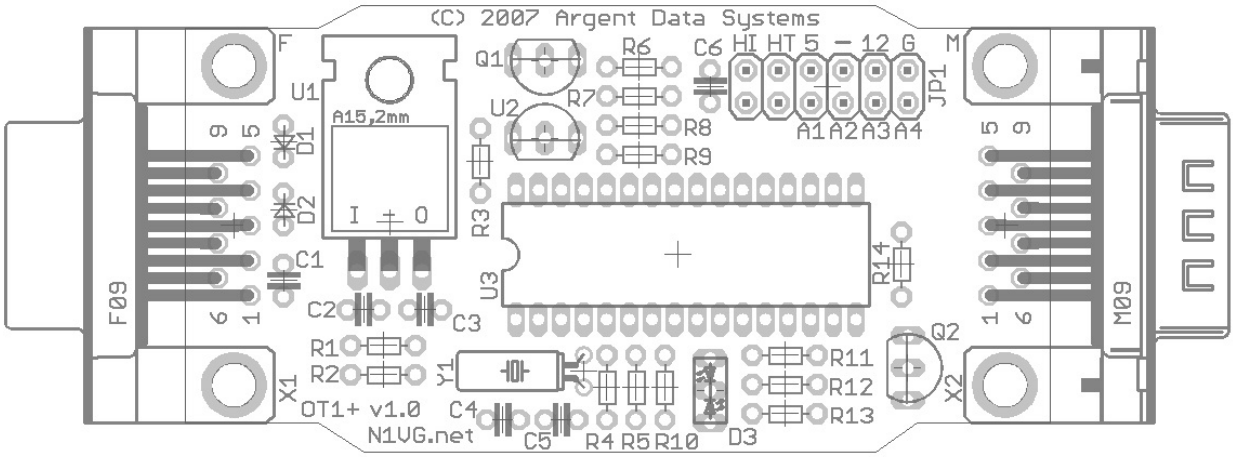
OPENTRACKER+

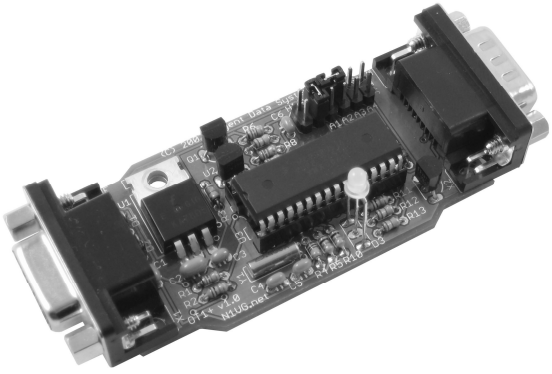
Powerful • Upgradeable • Open Source

ARGENT DATA SYSTEMS



APRS is more than just GPS vehicle tracking, and the OpenTracker+ is more than just an APRS tracker. Readings from its on-board temperature and voltage sensors, as well as from external inputs and a digital counter, can be displayed as part of your beacon text, or transmitted in APRS telemetry format.

The OpenTracker+ is also capable of decoding incoming APRS packets. When used with a suitable GPS receiver, the OpenTracker+ will plot the positions of received stations as waypoints on the GPS receiver's screen.



OpenTracker — the open source option for APRS tracking, telemetry, and weather

OpenTracker Features

- **Free firmware upgrades directly from the website**
- **On-board temperature and voltage sensors**
- **APRS telemetry output**
- **Supports 1-wire and Peet Bros WX stations**
- **Source code released under Modified BSD license**
- **Supports 1200 and 300 baud AFSK operation**
- **PSK31 support for PropNet^31 Operation**
- **Base91 compressed positions with 1-foot resolution**
- **SmartBeaconing™ for adaptive beacon rates**
- **Fixed location operation for telemetry with no GPS**
- **Dual configuration profiles with flexible selection**
- **Can drive external relay for radio power control**
- **Digital event counter, cumulative or since last transmission**
- **NMEA waypoint output**

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O P E N T R A C K E R +

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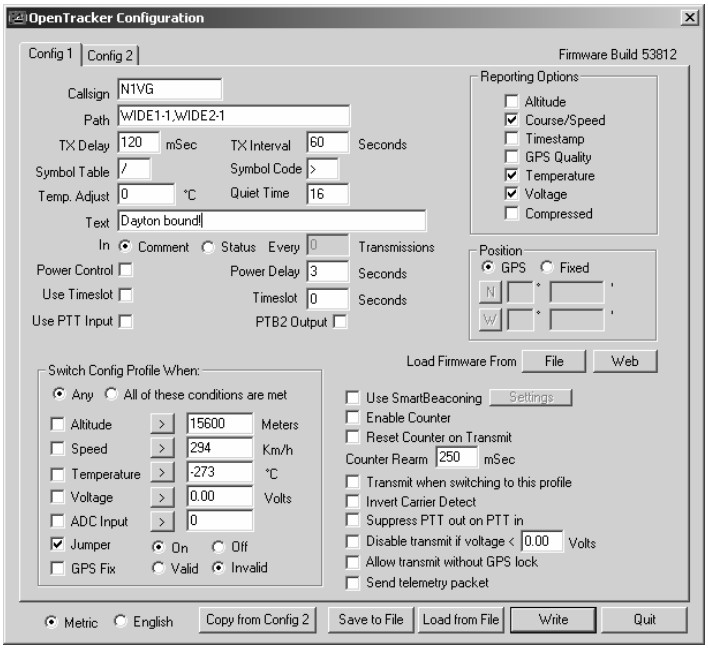
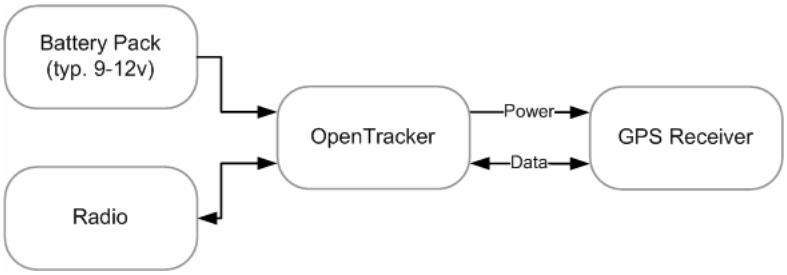
Specifications	
Voltage	DC 6.5 to 28 V
Current	8 mA idle, 20 mA transmitting Max 200 mA @ 5 V available for GPS
Modes	1200 bps AFSK, 300 bps AFSK, PSK31
Radio Connector	DB9 female (Kantronics pinout)
Serial Connector	DB9 male (DTE configuration)
GPS Interface	NMEA in/out



Typical Configuration



OpenTracker+ and TinyTrak3 Compared		
Feature	**OpenTracker+**	**TinyTrak3**
Configuration Profiles	Two, selectable based on jumper setting, speed, altitude, battery voltage, or temperature	Two, selectable by jumper setting
Firmware Updates	Free, updates download and install in seconds	Requires purchase of new chip
Telemetry	Onboard temperature and voltage sensors, plus extra analog input and digital counter input. Output in human-readable or standard APRS telemetry format.	Not supported
Weather	Interfaces with Dallas/AAG 1-Wire Wx Station; Peet Bros. Ultimeter II and Ultimeter 2000 series stations.	WxTrak version supports Radio Shack WX200, Oregon Scientific WM-918, and Peet Bros. Ultimeter 2000 series stations. Separate chips required for GPS and Wx operation.
Receive Capability	NMEA Waypoint output for all APRS position formats	Not Supported
SmartBeaconing™	Supported	Supported
Timeslotting	Supported	Supported
Mic-E Format	Not Supported	Supported
Compressed Format	Supported	Not Supported
Low Voltage Inhibit	Disables transmitting below specified voltage to avoid draining battery	Not supported

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