



# ROUTETRACKER™

## SPECIFICATIONS

### INTERNAL COMPONENTS

- Embedded GPS
- Embedded Truck / CAN Circuit
- Embedded Bluetooth
- Embedded Antenna

### INTERNAL FLEXIBLE SOFTWARE

- Easily Configured for Customer Requirements
- Multiple OS Supported (eCos, Linux, Windows CE)
- Wireless Configuration

### RouteTracker™



### Plug Options



Turnpike's single cable hardware design simplifies vehicle installation and reduces driver tampering. The Bluetooth technology and CAN bus architecture provides extended flexibility for future applications and business requirements.

### EXTERNAL COMPONENTS

#### CONNECTS WIRELESSLY

- CELL PHONE
- HAND HELD DEVICES
- BASE STATION
- PRINTER
- KEYPAD
- SENSORS

#### DIRECT CONNECT

#### VEHICLE ENGINE BUSES

- J1708 Heavy Duty
- J1850 Light Duty
- J1939 Next Generation Protocol (CAN)

#### EXTERNAL SENSORS

- Sensors Unlimited
- Reefer
- Open Door
- Compressor
- Proximity

#### OPEN RS232

- Standard RS232 devices



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## Electronic On-Board Recorder



**TURNPIKE**  
GLOBAL TECHNOLOGIES

TURNPIKE GLOBAL TECHNOLOGIES LLC.

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# RouteTracker™ "It's like riding in the passenger seat of all your vehicles."

## Increase driver productivity

Customer Stops Reports				
Start Date: 2005-11-01 - End Date: 2005-11-02				
Location	Total Stop Time (hh:mm:ss)			
B.F.I Bronx	0:48:52			
Unit #	Start Time	End Time	Time Stopped	
271	2005-11-01 05:33:33	2005-11-01 05:47:36	0:14:03	
271	2005-11-01 06:20:51	2005-11-01 06:29:53	0:09:02	
271	2005-11-02 06:00:09	2005-11-02 06:16:29	0:16:20	
271	2005-11-02 06:20:44	2005-11-02 06:30:11	0:09:27	
Barrett Litchfield	1:56:02			
Unit #	Start Time	End Time	Time Stopped	
260	2005-11-01 06:06:11	2005-11-01 06:52:45	0:46:34	
260	2005-11-01 08:48:10	2005-11-01 09:00:57	0:12:47	
260	2005-11-01 10:51:55	2005-11-01 11:27:33	0:35:38	
260	2005-11-01 13:29:56	2005-11-01 13:35:11	0:05:15	
260	2005-11-02 06:13:14	2005-11-02 06:18:24	0:05:10	
260	2005-11-02 12:21:19	2005-11-02 12:31:57	0:10:38	

The customer stops report allows for carriers to define through the Turnpike system their own customers and track how long their vehicles are present at those locations. The report gives summary stop time totals and a break down of all trucks that stopped at the customer location(s) and for how long. This is accomplished without driver intervention.

## Verify payroll

Vehicle Detail							
Unit: 609							
Date: 2005-11-11							
State	Location	Arrival - Departure	Distance (M)	Stop Time (hh:mm)	% Idle	Avg Speed (MPH)	
NY	Rotterdam, New York Depot	- 00:00					
NY	B0		10.3			77.0	
NY	B7		60.0			79.0	
NY	S32		4.6			67.0	
NY	WM Kingston	01:26 - 01:35		0:08	96		
NY	B0		131.1			79.0	
NY	S350		135.9			28.0	
NIA	NIA	05:33 - 05:58		0:22	100		
NIA	NIA	06:25 - 06:31		0:06	93		
NY	S31F		6.0			19.0	
NY	High Acres Landfill	06:32 - 06:48		0:16	99		
NY	S31F		2.9			14.0	
NY	High Acres Landfill	06:56 - 07:04		0:08	100		
NY	High Acres Landfill	07:06 - 07:15		0:08	100		
NY	S250		6.2			48.0	
NY	I490		9.3			75.0	
NY	I390		28.6			82.0	
NY	S63		5.6			78.0	
NY	Mount Morris	08:10 - 08:17		0:06	100		
NY	I390		28.0			82.0	
NY	B0		56.4			82.0	
NIA	NIA	10:02 -		59:04			
Trip Summary Detail			TOTAL	484.8	60:21	2.2	82.0
						65.3	

The Vehicle Detail Report allows customers to track the activity of their vehicles over any period of time. This report breaks down trip statistics in great detail to help increase driver and vehicle safety, as well as monitor driver and vehicle performance.

Vehicle Score Card						
Start Date: 2005-11-01 - End Date: 2005-11-15						
Unit	Speed Score	RPM Score	IDLE Score	Hardbrake Score	Total Points	Score (100 - Total Points)
97	0.00	0.51	0.00	0.00	0.51	99.49
260	0.00	0.07	0.70	0.75	1.51	98.49
71	0.00	0.19	0.00	1.50	1.69	98.31
511	0.30	0.21	0.00	1.50	2.01	97.99
276	0.10	1.43	0.68	0.00	2.21	97.79
19	0.00	0.01	0.00	3.00	3.01	96.99
32	0.00	0.20	0.00	3.00	3.20	96.80
271	0.11	4.02	0.00	0.00	4.13	95.87
257	0.01	5.05	0.00	0.00	5.06	94.94
270	0.12	3.51	0.12	1.50	5.25	94.75
602	5.18	0.36	0.00	0.00	5.55	94.45

## Increase vehicle and driver performance

The vehicle scorecard report allows carriers to manage vehicle and driver safety. This report ranks each vehicle based on customer defined thresholds and parameters. The report then scores them using the percentage of over speed, percentage of over RPM, percentage of idle time and hard brake usage.

Vehicle Score Card Detail				
Unit: 602				
Distance Travelled: 6263.7 M				
Start Date: 2005-11-01 - End Date: 2005-11-15				
Parameter	Threshold	Reading	Weight	Score
% Over Speed	76 mph	5.18	100%	5.18
% Over RPM	1800	3.63	10%	0.36
% Idle	10	9.71	15%	0.00
Hardbrake	2	1	75%	0.00
Total Points				5.55
Score (100 - Total Points)				94.45

Vehicle Idle Times Without Depot				
Start Date: 2005-10-01 - End Date: 2005-11-15				
Unit	Motion Time (hh:mm:ss)	Stop Time (hh:mm:ss)	Stop Idle Time (hh:mm:ss)	% Idle
721	0:56:34	0:17:21	0:10:53	62.73
143	257:49:57	149:22:22	91:58:09	61.57
	234:45:11	298:47:24	86:19:57	28.89
	215:59:18	378:17:09	109:00:55	28.82
	307:14:25	353:14:21	100:06:12	28.34
	109:57:57	116:23:39	29:54:17	25.69
	246:05:32	473:45:49	120:21:06	25.40
	248:38:27	396:49:40	98:07:17	24.73
	307:32:10	385:47:55	92:18:38	23.93
	177:50:13	354:01:45	79:00:23	22.32



## Regulatory compliance

The Hours of Service (HOS) application is easy to use and view. Signature capture combined with touch screen technology makes changing duty status, entering remarks and signing one's name simple for the driver. GPS and engine diagnostic data are other critical components to ensuring HOS accuracy. Vehicle speed, RPM and GPS data integration validate this process. All data is available 24 hours a day via a secured website.

HOS Apr 17, 2006 08:54

Frank Bith 11 Hour Rule 3

Drive Time Left 8 14 Hour Rule 3

Consec. time off 0 7 Day Rule 3

OFF DUTY: 00:00 SLEEPER: 00:00  
DRIVING: 00:00 ON DUTY: 00:00

OFF DUTY INSPECT  
SLEEPER REMARKS  
DRIVING VIEW  
ON DUTY LOGOUT

HOS Menu

The IFTA and state mileage forms are generated directly from our TurnpikeDirect® web service. With just a click of the mouse you can print, sign and send the IFTA and state mileage forms. Mileage information is broken down by jurisdiction and the actual route driven. Fuel information is imported electronically and reconciled with the miles to ensure an accurate mile per gallon. This is all accomplished without driver intervention.

New York State Department of Taxation and Finance											
IFTA Quarterly Fuel Use Tax Schedule											
Attach this schedule to Form FT-105-MR, IFTA (Quarterly) Fuel Use Tax Return											
Prepare a separate schedule for each fuel type. Use additional sheets if necessary. Make a copy for your records.											
Licensee IFTA Identification Number: 00-000000 Name: ABC Trucking Company Address: 123 Main St, Albany, NY 12242 Phone: (518) 555-1234 Date: 04/12/2006											
(A) Total IFTA Miles	(B) Total Non-IFTA Miles	(C) Total Miles	(D) Total Gallons	(E) Average Fleet MPG							
104,779	104,779	209,558	15,422	13.60							
Jurisdiction	State Code	Total Miles	Taxable Miles	MPG	Net Taxable Gallons	Tax Rate	Tax (Credit) Due	Interest Due	Total Due		
Alabama	01	0	0	0	0	0.00	0.00	0.00	0.00		
Arizona	02	0	0	0	0	0.00	0.00	0.00	0.00		
Arkansas	03	0	0	0	0	0.00	0.00	0.00	0.00		
California	04	0	0	0	0	0.00	0.00	0.00	0.00		
Colorado	05	0	0	0	0	0.00	0.00	0.00	0.00		
Connecticut	06	0	0	0	0	0.00	0.00	0.00	0.00		
Delaware	07	0	0	0	0	0.00	0.00	0.00	0.00		
Florida	08	0	0	0	0	0.00	0.00	0.00	0.00		
Georgia	09	0	0	0	0	0.00	0.00	0.00	0.00		
Illinois	10	0	0	0	0	0.00	0.00	0.00	0.00		
Indiana	11	0	0	0	0	0.00	0.00	0.00	0.00		
Iowa	12	0	0	0	0	0.00	0.00	0.00	0.00		
Kansas	13	0	0	0	0	0.00	0.00	0.00	0.00		
Kentucky	14	0	0	0	0	0.00	0.00	0.00	0.00		
Louisiana	15	0	0	0	0	0.00	0.00	0.00	0.00		
Maine	16	0	0	0	0	0.00	0.00	0.00	0.00		
Maryland	17	0	0	0	0	0.00	0.00	0.00	0.00		
Massachusetts	18	0	0	0	0	0.00	0.00	0.00	0.00		
Michigan	19	0	0	0	0	0.00	0.00	0.00	0.00		
Minnesota	20	0	0	0	0	0.00	0.00	0.00	0.00		
Mississippi	21	0	0	0	0	0.00	0.00	0.00	0.00		
Missouri	22	0	0	0	0	0.00	0.00	0.00	0.00		
Montana	23	0	0	0	0	0.00	0.00	0.00	0.00		
Nebraska	24	0	0	0	0	0.00	0.00	0.00	0.00		
Nevada	25	0	0	0	0	0.00	0.00	0.00	0.00		
New Hampshire	26	0	0	0	0	0.00	0.00	0.00	0.00		
New Jersey	27	0	0	0	0	0.00	0.00	0.00	0.00		
New Mexico	28	0	0	0	0	0.00	0.00	0.00	0.00		
New York	29	104,779	104,779	13.60	7,699	0.00	0.00	0.00	7,699		
North Carolina	30	0	0	0	0	0.00	0.00	0.00	0.00		
North Dakota	31	0	0	0	0	0.00	0.00	0.00	0.00		

## GPS Tracking, verify routes & engine diagnostics

The mapping component allows users to view detailed GPS data and manage what routes the vehicles are taking throughout their deliveries. Important engine diagnostic data is available for each location point along the route. In the event of a hard brake incident, the user can plot the occurrence immediately.

Event	Vehicle Speed (MPH)	Engine Speed (RPM)	Engine Load (%)	Cruise Mode	Brake Status
0	52.3	1110	12.1	0.0	off
1	50.0	1110	12.1	0.0	off
2	48.8	1110	12.1	0.0	off
3	48.8	1110	12.1	0.0	off
4	48.8	1110	12.1	0.0	off
5	48.8	1110	12.1	0.0	off
6	48.8	1110	12.1	0.0	off
7	48.8	1110	12.1	0.0	off
8	48.8	1110	12.1	0.0	off
9	48.8	1110	12.1	0.0	off
10	48.8	1110	12.1	0.0	off
11	48.8	1110	12.1	0.0	off
12	48.8	1110	12.1	0.0	off
13	48.8	1110	12.1	0.0	off
14	48.8	1110	12.1	0.0	off
15	48.8	1110	12.1	0.0	off
16	48.8	1110	12.1	0.0	off
17	48.8	1110	12.1	0.0	off
18	48.8	1110	12.1	0.0	off
19	48.8	1110	12.1	0.0	off
20	48.8	1110	12.1	0.0	off
21	48.8	1110	12.1	0.0	off
22	48.8	1110	12.1	0.0	off
23	48.8	1110	12.1	0.0	off
24	48.8	1110	12.1	0.0	off
25	48.8	1110	12.1	0.0	off
26	48.8	1110	12.1	0.0	off
27	48.8	1110	12.1	0.0	off
28	48.8	1110	12.1	0.0	off
29	48.8	1110	12.1	0.0	off
30	48.8	1110	12.1	0.0	off
31	48.8	1110	12.1	0.0	off
32	48.8	1110	12.1	0.0	off
33	48.8	1110	12.1	0.0	off
34	48.8	1110	12.1	0.0	off