Trafmate™ 6
Wireless Telemetry For Traffic Monitoring

Trafmate™ 6 is the latest addition to TrafInfo's line of wireless telemetry products for traffic monitoring. It incorporates many unique features such as automatic download of daily files, enhanced ability of real-time communication for diagnostics, trouble-shooting and re-programming of the traffic monitoring device, and browser interface for status and setup.

The unique feature of Trafmate 6 is its ability to allow for real-time communication with a remote traffic counter or sensor over the Internet. Even software that are designed to communicate with a counter or sensor either by direct-connect to a computer or over a dial-up telephone modem, can now be used to communicate with the remote device over the Internet (see back for details).

The Trafmate 6 is assigned a static IP address. Consequently, a standard browser can be used to check the status of the device as well as configure the Trafmate depending upon the type of counter or sensor.

- **Digital PCS wireless communication**
- **Static IP-addressable device**
- **Internet browser user interface**
- **Real-time communication capable**
- **Automatic download of daily files**
- **Nationwide service**
- **Usage-based monthly charges**
- **Available as OEM module**

TrafInfo Communications, Inc.
www.trafinfo.com
21-G Olympia Avenue, Suite 30, Woburn, MA 01801
Ph: (781) 710-5380 Fx: (781) 863-0051

Trafmate™ 6
Specifications

Power Requirements: Average 150 milliamps @ 12VDC (voltage range: 8-20V DC)

Interfaces: Standard DB9 (male) RS-232 serial port (user-selectable up to 38400)
2.5mm (center positive) DC plug
Mini-UHF antenna connector (female)
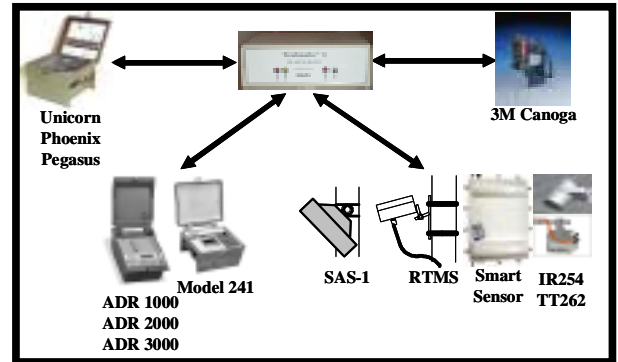
Wireless Transceiver:
Frequency: Tx:806-821Mhz; Rx 851-866 Mhz
Data-rate: 19.2 kbps and higher
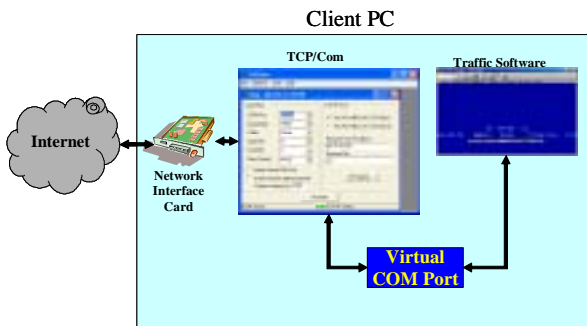Antenna: 3db gain, 15watts (max)

Environmental:
Operating Temp: -40°C to +85°C
Humidity: 95% non-condensing

Dimensions: 7 inches x 6 inches x 3 inches

Real-time Communication Over The Internet

Most traffic setup and reporting software provided by the counter/sensor manufacturers are designed to run on a PC and communicate with a counter either directly over a standard RS-232 serial port or using a modem and a dial-up telephone connection. In order for the same software to communicate with a remote counter over the Internet, in addition to Trafmate 6, **TCP-Com** software running in the background is necessary to channel all data to/from the software over to the Internet. TCP-Com is configured to use a virtual COM port and run in the background to communicate with the IP-address of Trafmate 6 over TCP port 23. Any data sent by the counter software through a serial port is received by TCP-Com via the virtual COM port and sent to Trafmate's IP address. Any response from the counter is transmitted back by Trafmate 6 and is received by TCP-Com and channeled through the virtual COM port to the traffic software.

Automatic Download of Daily Files

Trafmate 6 has the ability to automatically download daily files from a select number of counters/sensors including all of Peek Traffic counters, all of Diamond and IRD counters, the RTMS sensor by EIS, SAS-1 acoustic sensor by SmarTek Systems, SmartSensor by Wavetronix, and the Canoga™ detector card by 3M™. In the case of counters, soon after midnight, when the counter saves the 24-hour daily file into memory, Trafmate queries the counter to download the file. In case of sensors, Trafmate polls the sensor once every 30 seconds and accumulates the data over a 24-hour period. In either case, the 24-hour daily file, as soon as it is created/extracted, is automatically transmitted wirelessly to the TrafInfo's internet server. The files are stored on the TrafInfo server until downloaded by the user over the Internet using the **wTrafinfo** software. The wTrafinfo software is run on a standard PC with access to the Internet. It connects to the TrafInfo's server and downloads data in a matter of seconds. Daily files from the traffic sensors are saved on the PC in ASCII text similar to Peek's PRN format or in the CSV format. Binary files from counters are saved in the same binary format.