

GPS-100

Traffic Cabinet GPS

Specifications:

Power

- 10-26 VDC
- 1.5 W maximum

Temperature

- -40°F to +185°F (-40°C to +85°C)

Front Panel Lights:

Power Time Valid

- GPS receiver has locked:
 - Lock indicates 4 satellites have been seen to resolve for latitude, longitude, altitude, and time

Sync Fault

- Should never go on:
 - Indicates that no communications with ANY satellites have been made within the last 12 hours

Connections/Front Panel Power Connector/ Edge Card:

- | | | |
|------------------------|-------|-------|
| • Ground | Pin 5 | Pin A |
| • Voltage in | Pin 7 | Pin B |
| • IPPD (Pulse per day) | Pin 8 | Pin F |
| • Isolated ground | Pin 9 | Pin H |

Sync Pulse Duration

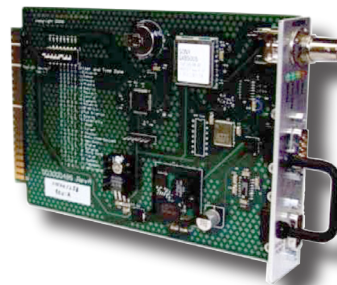
- 1000ms

Sync Pulse Amplitude

- Source voltage

Serial Port:

- Serial interface (DB9) @ 9600-8-N-1
- Hyperterminal access to embedded menu program
- Displays current status of GPS data and satellites



Menu Options:

- Update firmware
- Set time reset signal
 - 03:30:00 (Default)
- Display switches
 - Indicates board settings for DST and time zone

Antenna (Active):

Gain

- 27 dB

Operating Voltage

- 3 V - 5 V

Dimensions

- 2.2 in. diam. x 0.5 in. H (5.6 cm diam. x 1.27 cm H)

Features

- True GPS unit - true time
- Built for Econolite traffic control racks
- Duplicates pulse signal found in older Standard Time Signals (WWVB)
- Act as stand-alone or integrate to traffic cabinet controls
- GPS data sent once per second via serial port
- Time zone and DST
- DIP Switch Selectable:
 - Settings stored in Non-Volatile Memory
- Metal base and nut for cabinet top mount

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