



SERVING PEOPLE ON THE MOVE

Orbital's IVU-2100 is a blend of state-of-the-art electronics, reliable wireless communications, and real time transit functions. This system provides the capability control pertinent data regarding fleet activities in real time.

The IVU-2100 is the brains of the vehicle system is the providing GPS, Route Schedule Adherence (RSA), and wireless capability and an interface to serial and discrete sensors.

- Interfaces with mobile radio for voice and data communications
- GPS information (latitude, longitude, speed, heading)
- Monitors route and schedule adherence
- Discrete Sensors allow monitoring of vehicle systems
- Supports street maps and full turn by turn navigation
- Supports full paratransit scheduling system integration

Wireless Communications:

The IVU-2100 uses a variety of real time wireless methods to send information from the transit vehicle to the Command Center, including private mobile radio and cellular networks.

Real time Communications:

- Private Mobile radio at 150 MHz, 450 MHz, 800 MHz, 900 MHz
- iDEN/GPRS

Transportation Management Systems

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IVU-2100

Integrated Vehicle Unit



Position Determination:

Integral: 12-channel GPS receiver, DGPS corrections, 3-5 meter position accuracy (nominal).

Vehicle Interfaces:

- 7 opto-isolated discrete interface
- RS-232 interface for Integration with other sensors
- J1708 interfaces
- 8 inputs and 2 outputs
- RS-422 and RS-485
- Ethernet

Power Supply:

12V vehicle power supply

Processor:

Modular internal design with upgradeable options using an internal expansion bus

- 32 M of RAM
- On-air reconfigurable.
- High-speed Digital Signal Processor.