



Intermodule equipment

“Using multiple COM ports for communications, such as the GPS receiver and RF modem, and a flat panel driver for an LCD display mounted in the cab of the MIV, Now Solutions has customized its solution.” Now Solutions

Application:

The intermodal industry, which is the shipment of goods in large containers, using trucks, trains, and ships, is beginning to use technology advances to reduce financial losses, decrease man-hours, and increase accuracy of control and inventory.

Now Solutions, located in Santa Clara, CA, supplies tracking and guidance systems to the intermodal industry. Using Octagon hardware, Now Solutions is currently supplying a number of ports with GPS tracking systems.

Key factors in selecting an embedded controller for Now Solutions' tracking and guidance systems:

- On-card GPS
- Multiple communication ports
- High-speed video
- Flash support
- On-board PCMCIA
- Ability to run major operating systems, such as Windows and QNX

Locating the containers

GPS automates the process of matching the ID number of a container with its location in the shipyard. When a shipyard worker in a mobile inventory vehicle pulls up to a row entrance, he pushes a button and a GPS system pinpoints which row he is about to enter. As he drives down that row, the GPS systems picks up the identification numbers of the chassis, which links the container ID number to its exact location.

Rigorous testing for Octagon's cards

The 5066 CPU card, like all Octagon processors, is put through rigorous HALT (Highly Accelerated Life Testing) and HASS (Highly Accelerated Stress Screening) to help with the design and manufacture of cards that will be used in harsh environments, such as mobile computing. The 5066 is rated for -40° C to 70° C operating temperature, and 5g vibration and 20g shock.