GPS Tracking

GPS Satellite

Weight Measurement

Route Compliance

Weight Record

Image Record

Control Center

Proof of Collection

Route Compliance
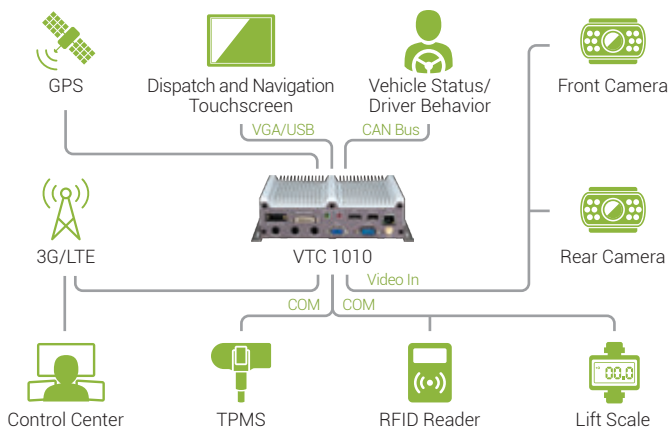
Waste Collection

NEXCOM In-vehicle Computers Provide Improved Waste Collection Services

Efficient waste management is essential to maintaining a clean and green environment. To accommodate the increased waste generation of a dense residential area, NEXCOM's in-vehicle computer VTC 1010 has been used on garbage trucks with the aim to improve the efficiency of the collection, transportation and disposal of urban waste, while reducing operational expenses.

With VTC 1010 in place, several service and operational improvements have been achieved. Drivers no longer need to manually weigh or estimate the volume of waste collected, and document when and where the garbage bin was collected and

which residence it belonged to. The information can now be digitally processed by the VTC 1010 connected to lift scales, GPS, RFID readers and cameras, allowing operators to easily and accurately calculate bills for each residence, and provide proof of collection images taken by cameras.

Moreover, with the VTC 1010 providing GPS, WWAN and CAN bus 2.0B connections, operators can track vehicle locations and driving behavior, dispatch jobs and provide optimal routes to landfills or recycling facilities to reduce transport costs and improve operational efficiency.

GPS

Dispatch and Navigation Touchscreen

Vehicle Status/ Driver Behavior

Front Camera

VGA/USB

CAN Bus

3G/LTE

VTC 1010

Rear Camera

Video In

COM

COM

Control Center

TPMS

RFID Reader

Lift Scale

VTC 1010

- Power-efficient Intel® Atom™ processor E3827 provides low power consumption
- Rich Mini-PCIe expansions for capture cards and cameras
- CAN bus 2.0B monitors vehicle health and driving behavior
- Built-in u-blox M8N GPS and WWAN for fleet management
- Compact and fanless design for installation in limited spaces
- Various I/Os for connecting TPMS, lift scales and RFIDs