RTG
Ross Technologies Group, LLC

2440 Wireless SmartCart

Real-Time, Wireless Mobility

The Model 2440 SmartCart provides warehouse employees the mobility to print and apply labels on demand, where they are needed. The cart can operate as a wireless powered print station or can be combined with a computer interface to provide intelligence data collection and printing. 15" or 17" LCD touch computers combined with intuitive software provides users a simple and effective method to generate RF ID or barcode labels, on demand. Several alternative interfaces options are available.

The universal design allows the cart to be tailored to fit your specific application needs. Adjustable shelves, expandable battery capacity, optional compartments and keyboard drawer, provide the flexibility to exceed current and future requirements. The SmartCart; ship kit, can be assembled in about 30 minutes. Alternatively the cart can be shipped fully assembled, the choice is yours. Just adjust the shelves, and install your particular hardware and your ready to go.

Inventory managers know, even a small increase in inventory accuracy and productivity can result in a significant financial savings. RF terminals and mobile printers empower employees with the information and printing capabilities to perform efficiently. Real-time data provides management with the details required to make quick well informed decisions. Tracking and recording inventory movement more accurately and efficiently in a warehouse effects the bottom line. "The more you know about your inventory, the less you need it". Printing bar code labels when and were they are needed helps you avoid costly mislabeling errors and reduces logistics issues. A well run warehouse, is the foundation of a healthy business.

RTG; providing the right technology for the job. Supplying engineered computing platforms, based on knowledge and experience for over 18 years.
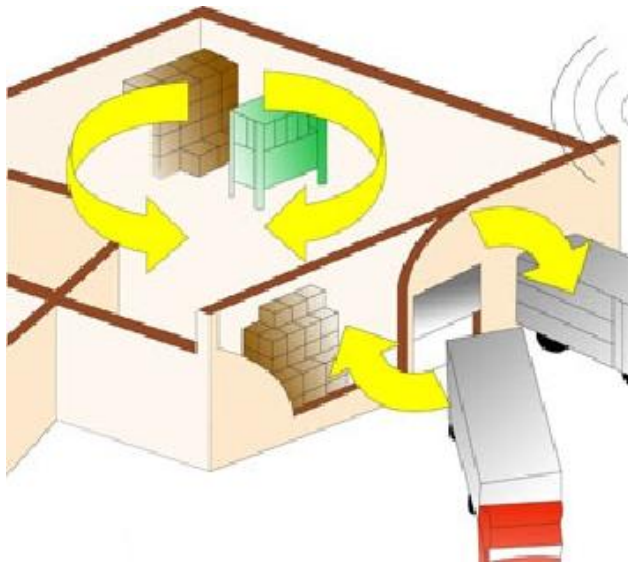
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Wireless Power Cart Technology

Cart Design
Constructed using heavy duty steel, and designed for easy of operation makes these carts the smart choice. Adjustable shelves, wire guides, mount brackets to secure devices, large rubber wheels, easy access to on board equipment, saves time and simplify operation.

Power
Rest assured the highest quality deep cycle batteries, charger, and inverter have been selected to provide years of dependable service. 105VA single, double, or triple batteries can be configured to meet your particular load and run-time requirements. A 750 watt Inverter is standard to provide ample power. 15A, or 30A chargers can be selected based on the desired recharge time.

Simple yet effective status is provided to alert the operator when batteries are to low or when charging is complete.

Computer Interface
15", 17" and larger LCD displays can be easily added to the cart to provide local intelligence to guide the operator through each task. Software can execute locally or interface wirelessly to a central host. Several options exist to provide the power and flexibility required. High-end graphics, integrated speakers, touch screen control, and keyboard mouse input are standard

Printing
Only the highest quality printers are chosen to meet your demanding barcode and RF ID requirements. The printer can operate wirelessly or utilize the onboard computer to generate labels.

Wireless Connectivity
802.11b or g wireless Ethernet communication can be provide integrated into the printer directly or as a communications card inside the PC. Cisco, Intel, and Linksys interface adapters and access points are commonly deployed.

SmartCart Photos

Universal design provides flexibility and ease. Configurable for your custom requirements

Powered or non-powered
A battery compartments is provided to house up to 3 deep cycle batteries, charger, and heavy duty 120VAC inverter. The option for Cordless operation can be easily added at any time.
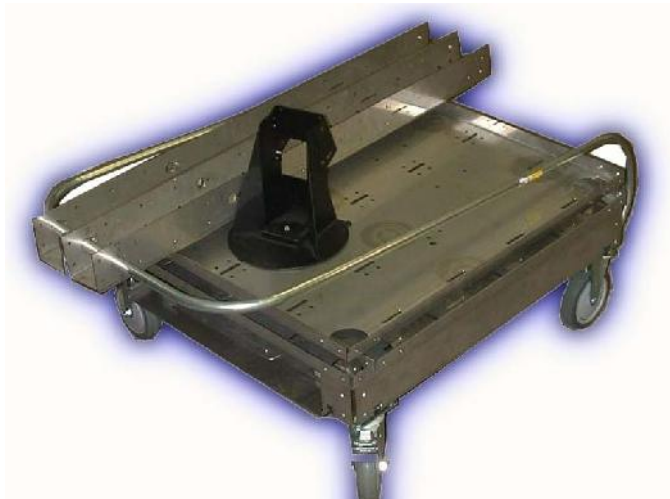

Heavy Duty Ball Bearing wheels
Locking swivel wheels with rubber cushioning to dampen shock & vibration.

Fully assembled or compact ship kit, the choice is yours.
Shipping cost and transport concerns diminish with the compact ship kit. The unit can be shipped UPS or FedEx for quick and easy assembly. Unit can also be shipped fully assembled for immediate use.
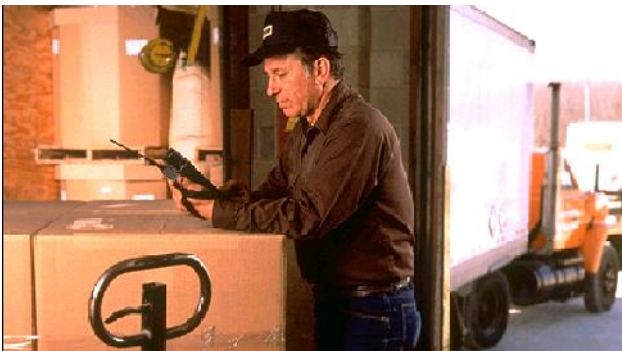
Touch Computer Options
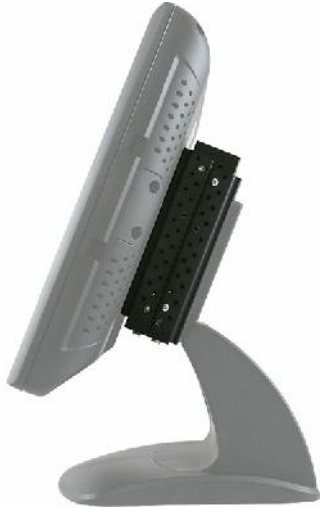
Choosing the right hardware for the Job:

Model 150-WPC
15" LCD Touch Computer
1.6GHz Low Power Processor
2G Ram
Windows XP Pro, win7
250GB Hard Drive or 30GB SSD
4 USB, 1 Serial
Touch
>65Watts Power consumption
Wireless Options

Twist & Tilt Vesa Mount
Standard Vesa mount
Designed for touch

SmartCart Computer Options

Embedded PC for reliable, real-time connectivity

Model 136 backpack
The 136 provides economical operation, and additional flexibility to add standard PCI option cards and a choice of LCD displays. These systems offers Dual core Atom and i3 processors, wireless Ethernet , graphics, and Sound.
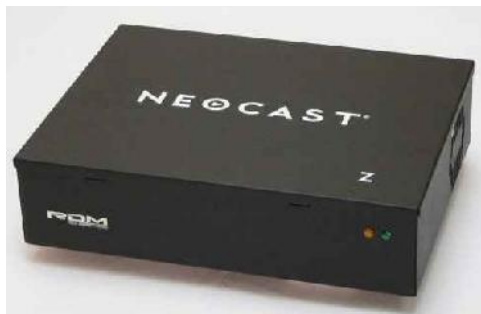

Model 7632 Rugged Notebook PC
Designed for Military Standards 810f for shock and vibration, repeated drops, and light rain. The 7632 provides a simple effective, notebook one piece solution. Pentium M low power consumption >65 watts, up to 2 GB memory, fast hard drive and Intel graphics. integrated Ethernet , and sound.

At a Glance

Low power consumption
Monitor backpack or laptop
Wireless
Intel Dual core Atom & i3 processors
Ultra low >30 Watt computers
Rugged Industrial Notebooks
Vesa Mounts for LCD monitor
Cost effective solutions
Customized for your requirements

Model 7600 Embedded PC
136-BP1 is a mini-itx PC that mounts like a back pack onto the rear of the monitor

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Hardware Overview

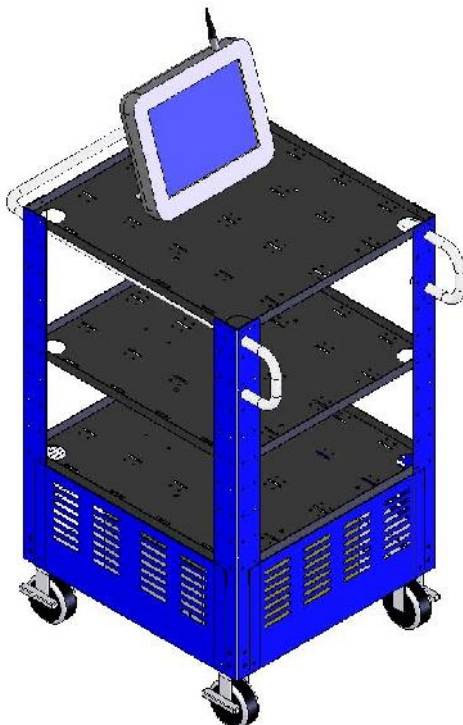**Dual Charger and inverter module; one component provides both charging & power**

20A Charger Specifications

Output Voltage Charge Float	20 amps continuous duty 14.2Vdc 13.6Vdc
Short circuit Protection	Overload Protection
Input Voltage Range	90 - 135Vac, 50 - 60Hz
Battery Connections	Circuit Breaker Protection
Efficiency	85%

750W Inverter Specifications

Max. Sustained Power	750 W
Peak Power	1200 W
Optimum Efficiency	approx. 90% efficient
No Load Current Draw	<0.06 A
Output Waveform	Modified Sine Wave
Over Voltage Protection	Over load Protection
Under Voltage Protection	Under Voltage Sense
AC Receptacles	2 outlets
Short circuit Protection	Low voltage shutdown

Powers AC devices up to 750 watts continuous regulated output protects sensitive equipment
Automatic shutdown and protection features
Mounting brackets for convenient installation
Quiet operation
Three AC Outputs

Smart Cart Accessories

Choosing the right hardware

30 & 50 Ft retractable Power cords

Power your mobile cart when ever possible with a hassle free retractable extension cord. To optimize the batteries; only run off batteries when necessary. The charger will never over charge the batteries, so choose this feature to prolog your battery run time and life.

Precision Voltage meter
Detect actual discharge of the Bat-

tery. Chart supplied to determine the precise discharge of the batteries.
12.9V = 100% charged
12.4V = 75% charged
12.2V = 50% discharged
Always attempt to recharge at 75%

ORDERING INFORMATION
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AGM 120VA Batteries
Absorbed Glass Matt (AGM) batteries are an excellent choice for deep cycle applications, such as portable carts. The batteries can not leak or spill, do not emit hazardous gas, and are designed for repeated charge and discharge down to 50%. When properly charged they offer 300-500 cycles of operation.

Rubber S hook tie-downs and hold-down bars to secure hardware peripherals

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Preliminary Specifications

Model 2440	
Standard Features	SmartCart
Physical	
Card Dimensions	47" H x 22" W x 24"L
Cart Weight	Approx. 220Lbs with single 120VA Power Pack
	Approx. 340Lbs with dual 120VA Power Pack
	Additional 120VA Power Pack adds 120Lbs
Shelves	Three standard, adjustable, 24" x 22"
	Optional brackets to secure printers, computers
	Through holes for adjustable bracket and wire tie wraps
	Adjustable to 3 inches
Cable Routing	Cables designed to route through corner flanges. Through holes between shelves.
Securing Peripherals	S-hook Tie wraps restraints for maximum flexibility and light weight. Slots and locking holes provided in the shelves. Adjustable optional anchors for odd lengths
Power	
Batteries	Safe, Sealed, AGM, Maintenance Free
	Easy replacement
	Single, Dual, or Triple 105AH Batteries
Charger	Industrial on board charger provides efficient, silent, and safe charging. Plugs into 120VDC
	120AH unit complete recharge in 10-12 hours with 20A charger
	3 cycle charging
Inverter	750/1200 Watt Modified Sine Wave 120VAC
	Low Battery detection
	Low Battery shut down protection
	LED Battery status meter and chart E, 25%, 50%, Full (optional gage)
	Fault LED
	AC Power LED
Status Gage	LCD gage optional
Power Outlets	3, or 6 multi outlet options