

USER'S GUIDE

It thinks for you!

INTELLIGENT Netbook Computer Cart



NETBOOK42 42 Netbook Computers in Vertical Slots

- Maximize your technology investment**
Unique Power Management & Control System (patent pending) gives you the ability to:
 - Extend the battery life of your computers with one touch!
 - Save on energy costs – the “Brain” knows the more charged a battery, the less power it requires.
- Designed for the IT Coordinator, the Instructor & the Student**
 - Easy set-up for the IT Coordinator
 - Easy to maintain by the Instructor
 - Easy to use for the Student
- Laser-cut Identification System helps keep you in control and your investment organized.



All about Safety & Security
Peace of mind, knowing that the entire cart is UL PENDING - not just the electrical units. So your students - your real technology investment - are safe and secure.

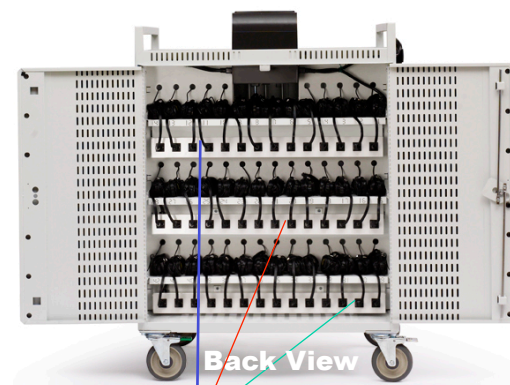
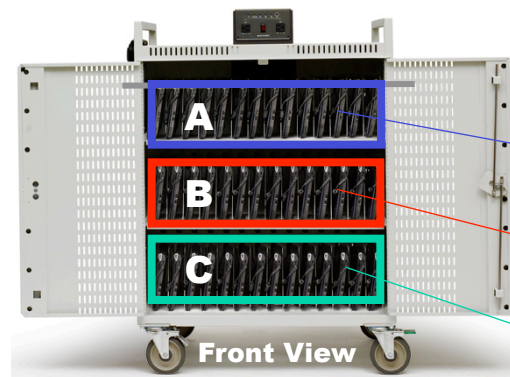


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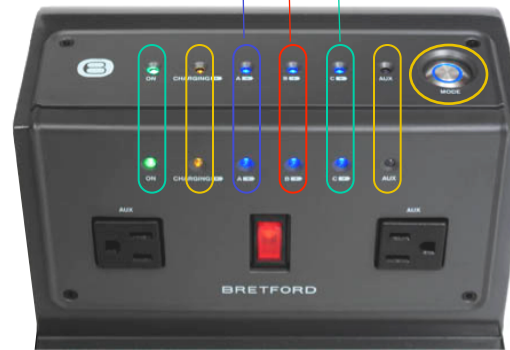
Cut Here - Finished size = 16"W x 11"H - Folded three times, like a map

Power Management System ... “The Brain”



Power Strips A & B & C are controlled by the “Brain”, which shifts the power from one strip to the other, and even allows a “Turbo Charge”, where all available power is sent to either Power Strip A or B or C – Steps 3 & 4 & 5

- Turn Red Switch “ON”
1st LED comes on,
GREEN ...
Cart has power
- Push the “Mode” Button
2nd LED comes on,
YELLOW ...
All computers in the cart are charging
- Push the “Mode” Button
3rd LED comes on,
BLUE ...
Only Computers plugged into Power Strip A are TURBO Charging
- Push the “Mode” Button
4th LED comes on,
BLUE ...
Only Computers plugged into Power Strip B are TURBO charging
- Push the “Mode” Button
4th LED comes on,
BLUE ...
Only Computers plugged into Power Strip C are TURBO charging
- Push the “Mode” Button
5th LED comes on,
ORANGE ...
Only the 2 Auxiliary Outlets have power, no battery charging



Mode Button

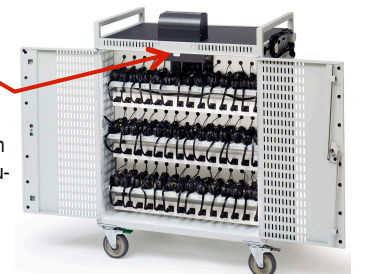
- Green** = Power On
- Yellow** = Power to the all the laptops
- Blue** = Turbo-Charge, 10 at a time
- Amber** = 2 Auxiliary Outlets ONLY

- Press **1x** Yellow Light comes on, all laptops charging
- Press **2x** 1st Blue Turbo Light comes on. All available power diverted to Power Strip A
- Press **3x** 2nd Blue Turbo Light comes on. All available power diverted to Power Strip B
- Press **4x** 3rd Blue Turbo Light comes on. All available power diverted to Power Strip C
- Press **5x** Amber Light comes on. All available power diverted to the 2 Auxiliary Monument Outlets ONLY – no charging
- Press **6x** Reverts to Green Light indicating power in the cart



Always-On Electrical Outlet
Under the Brain, accessible from the rear of the cart, is one unique Electrical Outlet, rated for 1 Amp. This outlet is for a Wireless Access Point.

The Wireless Access Point's power cord can be routed through the cart at the side cord-pass-thru-hole, opposite the cart's power cord. Remember, the outlet is maximum 1 Amp, only.



Assembly Instructions

Unleash the Power Cord

The 10-foot Power Cord is tucked inside the back of the cabinet. Looking at the back of the cart, find the grommet hole beside the right handle. Thread the plug through the grommet hole, pull the cord through, and wind around the handle.



1



Always Turn Off the Power to the Cart before Plugging In Or Out!

2



“What happens when I push the button?” “What do the lights mean?”

Turn on **Red Power Switch**.
Green light glows as long as the Red Power Switch is turned on. Power is now on inside the laptop cart.
Always-On Electrical Outlet stays on as long as the Red Power Switch is on. (see below)



Left alone, the Brain will automatically turn on the **Yellow** light, which means that all power is being sent to charge the computer batteries.

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Netbook Computer Cart



NETBOOK42

42 Netbook Computers in Vertical Slots

Power Module keeps the constant flow of power from a single wall outlet charging batteries where needed.

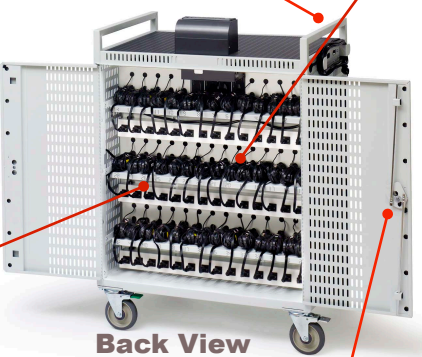
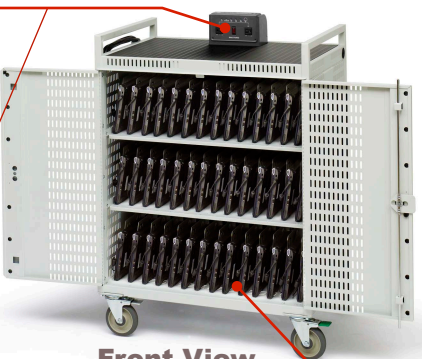
LED Lights on the Power Module keep you informed at a glance of what's going on in the cart.

Directional Locking Casters can be locked as a rigid caster for easy rolling down the hallway, unlocked to swivel for easily getting into tight spaces.

Laser-Cut Identification Numbers on both front slots & back shelves help keep computers and their cable sets in their place and immediate recognition if one goes missing.

Cord Winder on the side panel provides easy access up high, so that the cord does not get crimped under the wheel.

Cable Clutter Closet keeps the cable sets and adapter bricks organized, everything in its place, with easy access.



3-point Security on both front & back doors with programmable combination padlocks, plus recessed doors make it difficult to pry them open.



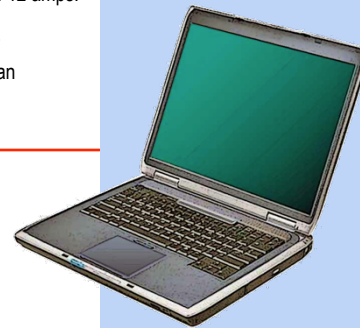
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How Does a Laptop Computer Manage Heat?

To manage the heat stress of the battery, computer engineers include sophisticated battery management functions in the design of the computers. They can be found in two places: the external charger & internal to the notebook computer itself. The transformer converts the alternating current from the wall socket to a lower voltage direct current. Besides charging the notebook's battery these "bricks" as they're sometimes called, can supply enough electricity to operate the laptop and charge the battery simultaneously.

Deep inside the computer a dedicated microcircuit continuously monitors and manages the charging current, voltage and temperature of the battery. If the temperature of the battery exceeds limits, the microcircuit will stop charging the battery until the temperature drops to acceptable levels.

Keeping the battery cooler while charging allows the battery to charge faster.



- ELECTRICAL:** Avoid sparks. Avoid arcing **Always turn OFF the power to the cart before plugging IN or OUT!**
- ELECTRICAL:** For Safety Purposes, make sure all electrical components do not exceed the the maximum load rating of 12 amps.
- ELECTRICAL:** Risk of electrical shock. Do not plug the power cord into another extension cord or relocatable power tap.
- ELECTRICAL:** The Power Bars inside the laptop cart are only for charging laptop computers. Any other use may cause an overload for the Power Management System, causing the "Brain" to shutdown, resulting in the LED lights flashing on and off. To reset the Brain, turn off the main power switch, unplug the non-laptop computer, then turn the main switch back on.

CAUTION: Ventilation is critical for laptop computer carts to operate correctly, providing the appropriate airflow so that heat-buildup is minimized during the battery-charging process, with the computers turned OFF. Be sure each laptop computer is turned OFF before plugging into the cart.

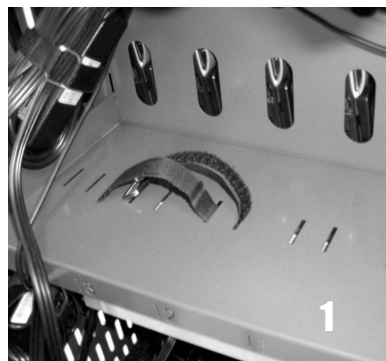
CAUTION: Do Not block the ventilation holes on the cart. Proper air flow is required for safe operation of equipment.

CAUTION: Cart with computers should be keep in a room with a maximum temperature not to exceed 77° F or 25° C.

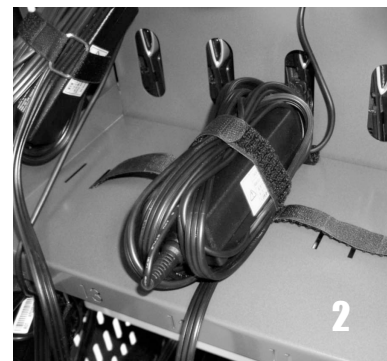
CAUTION: Maximum weight of accessories on top of cabinet is 25 pounds.

CAUTION: Avoid loading equipment in the cart in a uneven fashion. Uneven weight distribution could cause a hazardous condition.

Cable Management System ... "The Cable Clutter Closet"



Thread the Velcro strap through the two slots directly behind the front computer slot, tacky side out, as shown.



Wrap the Cord Set with both cables around the adapter as shown, leaving 16" for computer plug, 8" for power plug. Lay the wrap on the Velcro strap as shown.



Buckle the Velcro strap around the wrapped cord set, cinching it down against the shelf. Velcro Buckle locks into place as shown.



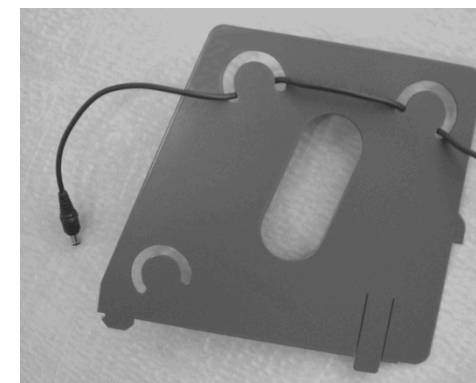
Thread computer plug cable through the hole Pull the computer plug cable through the front slot and directly above the cinched down cord set. Plug cable drops into the computer slot in front.



Thread the cable through the loops so that the plug is in the correct position to attach to the computer, as shown. Below is a detail of the divider panel showing the loops.

Divider Panel with Cable Slots

Each snap-in Divider Panel features slots for routing the computer plug cable to the plug-in spot on the computer – high or low, left or right. And the panel has a hole for air flow.



Laser Cut ID Numbers

inside the Cable Clutter Closet and on the front shelves show you how to use the A-B-C Code for optimal advantage of the Brain and its Turbocharge Mode.



"A place for everything, and everything in its place."

You know from personal experience the value of keeping your closet neat and organized. You know exactly where everything is when you open the door. So Bretford developed a "closet" for all the cords and cables associated with Netbook Computers.

Your Intelligent Netbook Cart has its own "Cable Clutter Closet" – a lockable compartment at the back of the cart especially designed to keep all the cables away from the computers and the hands that retrieve those computers from the cart.

The interior **Divider Panel** separates the cart so that 75% of the cart is dedicated to the computers in the front and 25% is dedicated to cables and power adapters in the back. Holes in the Divider Panel allow the computer connector cables to pass thru and be easily connected to the computers for charging.

By separating the computer from its power adapter, you minimize the amount of heat beside the computer battery, allowing it to charge at a lower temperature,

... allowing the battery to charge faster.

Only the **IT Administrator** has access to the Cable Clutter Closet, since it has its own programmable Combination Padlock.

Full view of the closet – you immediately know if something is missing or out of place.

Special **Cable Tie-Off Slots** for the power adapters and their cables provide nesting for cordsets.

Comes with **Laser Cut ID Numbers** for coding the computers, the slots and the cable sets.

Typically, every netbook computer comes with 12 feet of cable, plus the adapter 12 x 42 = 504 feet of cable that has to go somewhere