



Link[®] Cart

Laptop Charging Cart With Network Connectivity

User Guide



About Your Product

Product Overview - Front View

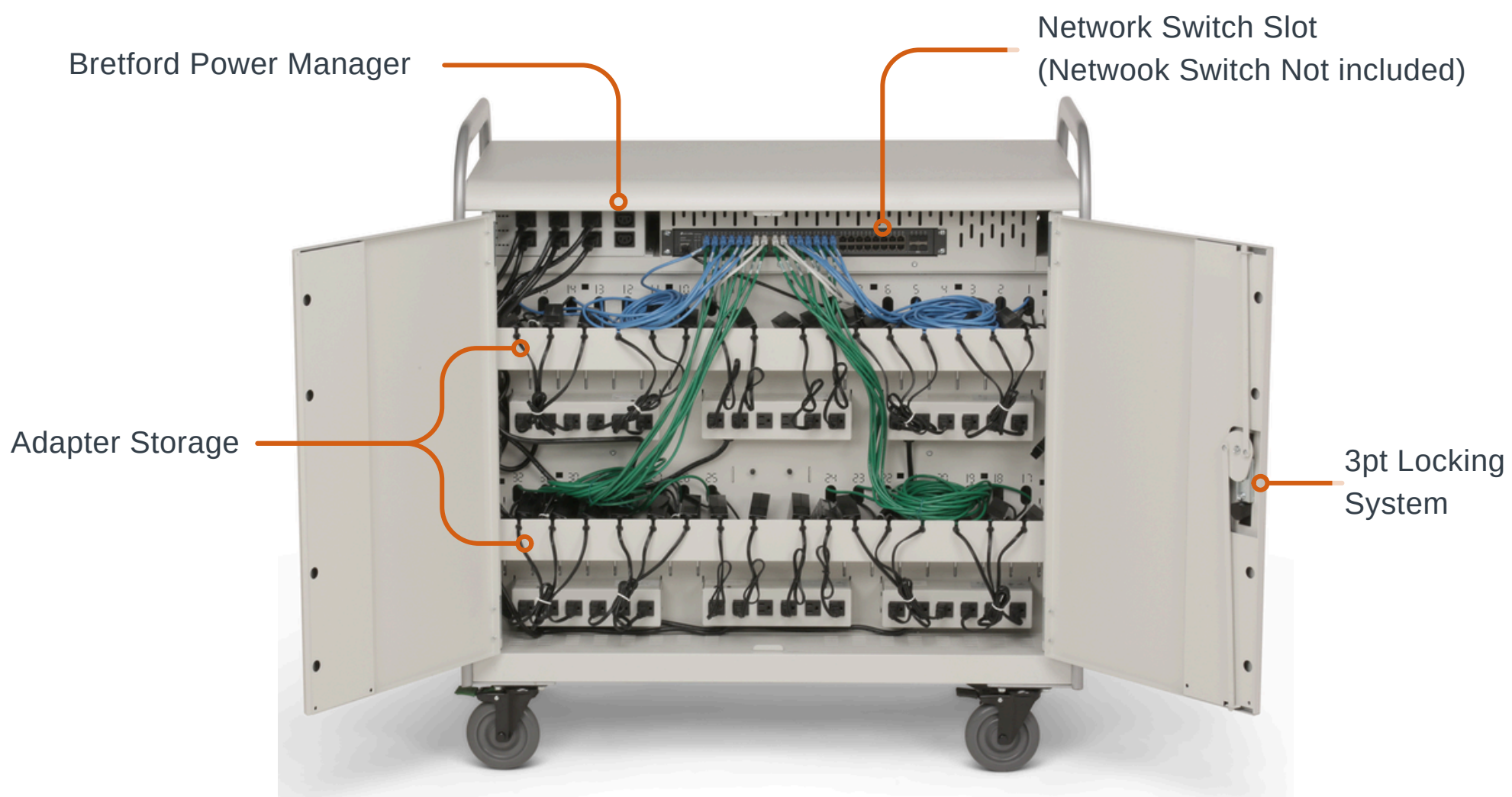
The Link[®] Cart with provides charging, security, and network connectivity for up to 32 devices.





About Your Product

Product Overview - Rear View





About Your Product

Technical Specifications

Link[®] Cart

Model:	MDMLAP24NR	MDMLAP24USB	MDMLAP32NR	MDMLAP32USB
Device Capacity:	24	24	32	32
Slot Dimensions (in.):	1.4 x 15.5 x 11.9	1.4 x 15.5 x 11.9	1.7 x 15.5 x 11.9	1.7 x 15.5 x 11.9
Device Compability:	Up to 15.6"			
Cart Dimensions (in.):	34.5 x 25 x 43	34.5 x 25 x 43	48 x 24 x 43	48 x 24 x 43
Weight (empty):	172 lbs	190 lbs	251 lbs	274 lbs
Switch Space Dimensions (in.):	17.7 x 16 x 1.75	17.7 x 16 x 1.75	17.7 x 15.8 x 2	17.7 x 15.8 x 2
Rating:	120V, 12A max. 50-60Hz AC			
Warranty:	For the latest information, please visit bretford.com/warranty .			

Certifications:





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What Is In The Box

All Link[®] Carts purchases includes the following items:

- Link[®] Cart, fully assembled (1)
- Power Cord (1)
- Combination Padlock (1)
- CAT5 Ethernet Cables (24 or 32 depending on cart capacity)
- Please note that a network switch is **not** included and will need to be supplied separately. The cart is designed to work with most commonly sized 19" switches.
- Pre-wired Link[®] Carts (MDMLAP24USB and MDMLAP32USB) also include 65W USB-C power adapters (24 or 32 depending on cart capacity)



About Your Product

Getting Started

Powering Up Your Cart

To turn on your Link[®] Cart, plug the power cord located on the side of the cart into a wall outlet. After plugging the cart into the wall check that the power switch is in the “RESET” position. The power switch will glow red when there is power to the cart.

The Link[®] Cart comes equipped with Bretford’s Power Manager smart charger. The Power Manager has two indicator lights located directly to the left of the power switch. When powering up the cart, both indicator lights will light up for approximately two (2) seconds.

Setting the Combination Lock

Your new Link[®] Cart comes equipped with a resettable Combination Padlock. The lock comes with a combination of 0-0-0-0, but you can program the lock with your own combination. To change the combination follow the directions that came with the lock.



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Power Manager - Introduction

The Bretford Power Manager smart charging system is designed to continuously charge even the most hungry laptops using only one wall outlet.

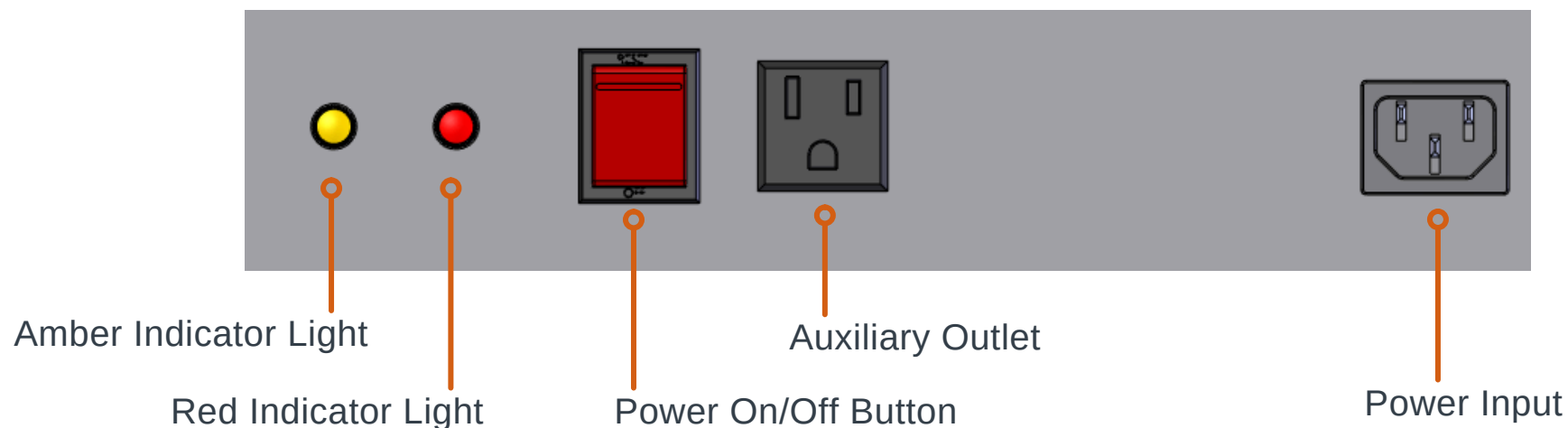
- The Power Manager constantly evaluates the system's demand for power and intelligently allocates power to maximize the number of charging devices.
- Unlike similar smart charging solutions, which can leave devices without receiving a charge for up to two hours, the power manager's sequential cycling ensures that all connected devices will receive a partial charge during each cycle.
- When the total draw of the devices allows it, the power manager will turn on all ports and keep them charging.
- The Bretford Power Manager comes with an auxiliary outlet for providing continuous power to external devices
- Two Heat Sensors inside the cart communicate the internal temperature to the Power Manager. When it exceeds 77F the fans will turn on and if it gets above 100F the system stops sending power until the carts cool down.



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Power Manager Overview

Power Manager External Front Panel



The Power Manager is an integrated part of our charging carts. It needs no other input than switching the Power button on or off.

Setting the Power button to “On” powers up the cart and starts the charging process. Setting it to “Off” turns off the Power Manager and stops all charging.

The LED indicator lights shows the cart’s current status. The two lights serve as both an indicator of charging status and as a guide if there are any issues (see next page). The left light is **Amber** and the right one is **Red**.

The Auxiliary outlet allows a user to conveniently charge extra devices as needed. This outlet is always powered and is not part of the Power Manager’s sequential cycling process



Please Note: It is recommended that the Auxiliary outlet not be used while charging devices



About Your Product

Power Manager - Standard Charging

Upon powering on, the Power Manager will check the total draw of all connected power strips and automatically enter the appropriate charging mode.

1. When the power button is switched to the “On” position, both indicator lights will light up for approximately 2 seconds.
2. Both lights will then turn off while the Power Manager evaluates the power required to charge the first set of devices.
3. The Amber light will come on and stay lit, indicating that the Power Manager is now in the Smart Charge mode and will move through its cycling sequence.
4. Once the power needed to charge all of the devices in the cart reaches a level that will not trip the circuit, the Power Manager enters All Charge mode and charge all devices. In All Charge mode both lights will be off.

Basic charging reference guide

#	Amber Light	Red Light	Meaning
1	On	On	Start-up
2	Off	Off	Self-test
3	On	Off	Sequential Cycling Mode
4	Off	Off	All Charge Mode



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Power Manager- Network Functionality

Please Note: The Link[®] Cart does not ship with a network switch. It is the responsibility of your IT department to supply any switch if one is desired. The Link[®] Cart is designed to house a standard sized 19 inch switch enclosure.

Networking with the Power Manager

The network switch in the Link[®] Cart will only turn on once the Power Manager have moved into its “All Charge” mode and is powering all connected devices simultaneously. Once turned on, the power switch will continue to receive power until the cart is powered down.

Once the Network switch is powered on, should the cart revert back to its smart charging mode the switch remains powered on. In this case some devices will temporarily be running on battery power. Since computers can receive updates while on battery power this does not affect networking functionality.

Note that when computers are updated remotely, they need AC power to receive a “wake-up” packet. Therefore, when using Wake-On LAN Bretford recommends waking connected devices in stages to prevent the Power Manager from going into Smart Charge mode.



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Basic Troubleshooting - General Operation

The cart is not powering up

1. Please start by disconnecting any device from the cart's auxiliary outlet.
2. Disconnect any power switch that has been installed in the cart.
3. Check that the power button is set to "Reset". If it is, please do a reset by switching it to "off" before switching back to "Reset".
4. Check that the power cord is connected to the cart.
5. Please check that the power cord is properly connected to the wall outlet
6. If power issues still remains, please reach out to Bretford's customer service team to schedule service or a replacement.

The network switch is not functioning

1. Please make sure there is power to the cart itself (see above).
2. Make sure the network switch is properly connected to the cart
3. Since the Network switch is supplied separately from the Link[®] Cart, please refer to switch's manual and reach out to the manufacturer for further assistance.



About Your Product

Basic Troubleshooting - Power Manager

The Power Manager constantly monitors and evaluates the power draw of the cart. If something out of the ordinary is detected, the LED indicator lights are used to communicate the type of issue that has been detected.

1. When the Amber light displays single blinks the current required to power the auxiliary outlet is too high. Unplugging whatever is plugged into the auxiliary outlet should allow the Power manager to resume charging the devices.
2. If the Amber light displays double blinks the internal temperature of the cart is too high. Open the doors of the cart and/or move to a cooler room. The cart should cool down without having to turn off the Power Manager.
3. If both the Amber and Red lights start to blink then one set of devices is drawing too much current and the power Manager needs to be reset by first turning it off, and then back on. If the problem persists there may be a faulty device that need to be removed.

Basic troubleshooting reference guide

#	Amber Light	Red Light	Meaning	Solution
1	Single Blinks	Off	Auxiliary drawing too much power	Unplug Auxiliary
2	Double Blinks	Off	Internal temp of cart too high	Open Doors/Move Cart
3	Single Blinks	Single Blinks	One Set Drawing Too Much Power	Turn Off& On



Important Information

Safety Notice

- Product for indoor use only
- Power outlets inside the cart are intended only for charging compatible devices. Any other use may cause overload.
- Do not plug the unit in if the switch or power cord has been damaged.
- Unplug unit from the wall before moving to a different location.
- Engage locking casters when cart is not in transit.
- Do not block ventilation holes on cart. Proper air flow is required for safe operation.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- For safety purposes, make sure all electrical components do not exceed the maximum load rating of 12 amps.



Additional Resources

Contact Support

Technical support is available by contacting Bretford Customer Care via phone, email or the web:

Hours of Operation: M-F, 7:30am - 4:30pm CST

Telephone: +1-800-521-9614

Email: customerservice@bretford.com

Website: www.bretford.com/contact

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