

# SyncPad54

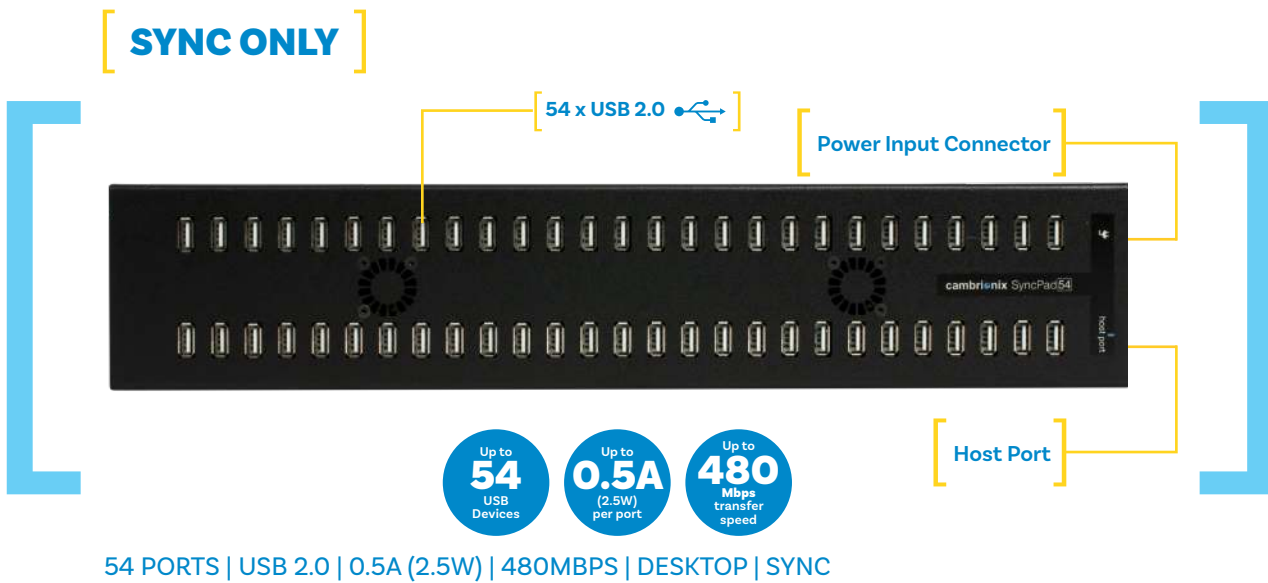
## USER GUIDE

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## 1 SyncPad54 at a glance



The SyncPad54 has been designed primarily for desktop use, being highly compact and quiet. It is supplied with an external power supply to minimize its footprint and is ready to charge out-of-the-box and to Sync devices when attached to a host computer.

It provides 2.5 Watts of charging power to each of its 54 USB2.0 ports, allowing USB devices to be charged safely and reliably.

### What's included

These items are required to use your SyncPad54 and are included in the box:

- The SyncPad54 unit
- A 180W Power Supply Unit (PSU)
- A mains cable appropriate for the country of use

Optional High-Speed Type-B to Type-A USB cables are available to purchase separately.

## 2 Getting Started

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### 2.1 Registration

You may register you and your product at <https://cambrionix.com> to download LiveViewer, our API and firmware updates.

### 2.2 Connecting to the mains

Connect the Power Supply Unit (PSU) to the SyncPad54 using the 4-pin DIN plug. Connect the mains cable to the PSU. Making sure you adhere to local safety regulations, connect the mains cable to the mains power supply. The SyncPad54 is now ready to charge and sync attached devices.

## 3 Charging without connecting to a host computer

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When the SyncPad54 is switched on it will charge devices at 500 mA (2.5 Watts). Simply connect the devices to be charged to any of the available 54 ports (not the Host Port) using USB2.0-compliant cables.

## 4 Using when connected to a host computer

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When the SyncPad54 Host Port is connected to a local computer (using a Type-A to Type-B USB2.0 or higher compliant cable), charging will proceed as described above while data can be transferred to any of the attached devices as if they were attached to the computer's USB port. Each port is compliant with USB 2.0 specifications and can transfer data at speeds up to 480 Mbps.

## 7 Specifications

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### SyncPad54

<b>Input Voltage:</b>	12Vdc
<b>Input Current:</b>	13A
<b>Input Connection:</b>	4-pin DIN
<b>Output Voltage:</b>	5.2V
<b>Output Current:</b>	0.5A Max per Port
<b>Output Power:</b>	2.5W Max per Port
<b>Output Power (Total):</b>	160 Maximum

<b>Input/Output Connectors:</b>	54 x USB Type-A, 1 x USB Type-B, 1 x 4-pin DIN
<b>Ambient Operating Temperature Range:</b>	0 ~ 35°C
<b>Relative humidity:</b>	5% to 95% non-condensing
<b>Dimensions (approx.):</b>	430 long x 86 wide x 28 high mm
<b>Approximate weight:</b>	1.4 kg (inc PSU)

### Power Supply

<b>Input Voltage:</b>	100-250Vdc
<b>Input Current:</b>	2.5A @ 115 Vac
<b>Input Frequency:</b>	50-60Hz

<b>Input Connector:</b>	C14
<b>Output Voltage:</b>	12Vdc
<b>Output Current:</b>	15A
<b>Output Power:</b>	180W
<b>Output Connector:</b>	4-pin DIN

## 8 Certifications

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- Independently safety tested by the Underwriters Laboratory (UL) under file #E346549
- CE Tested and marked
- CB Certificate
- FCC Part 15 Tested and marked
- RoHS Compliant
- China CCC certification
- Japanese PSE certification (pending)
- Complies with the latest EN60950 safety requirements for ITE
- Housed within a UL94-V0 specification fire enclosure

## 9 Safety Guidelines and Precautions

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### Please read and understand these guidelines prior to installation or use.

The SyncPad54 has ESD, over-voltage, over-current and over-temperature protection. However, to use the equipment safely you should follow all local regulations relating to the use of electrical equipment and note that:

- Failure to install and operate the equipment in accordance with all local and these safety guidelines may result in unit failure, electrical shock and personal injury.
- The plug on the power cord is considered the “disconnect device” and consequently the mains outlet should be located near the TS2-16, easily accessible in case the power supply needs to be isolated from the mains power.
- If there is a liquid spillage over a ventilation slot, external data/power connector or product aperture, remove power from the unit without contacting the liquid immediately.

## Important Electrical and Safety Messages

Safety warning	Potential consequence if ignored
Do not modify the product in any way.	Fire, electric shock or personal injury may occur.
Do not dismantle the product.	Fire, electric shock or personal injury may occur.
Do not bend, compress or drill into any part of the product.	Damage, electric shock or personal injury may occur.
Parts of Cambrix products may become hot during operation. Do not obstruct air vents on the product or operate the product in an environment where the ambient temperature is outside the recommended operating temperature region.	An increased internal temperature may cause a fire.
Cambrix products are not reverse-polarity protected. The power connections MUST be connected correctly. If in doubt, please contact Cambrix.	Damage to your Cambrix product may occur. A fire or electric shock may result.
Do not short circuit the Power Supply Unit (PSU) supplied with your Cambrix product.	Sparks, fire or electric shock may result.
Ensure dust does not collect around the power plug pins or power socket, or in or around the air vents to the extent it causes a reduction in air circulation.	A fire may result if there is combustible material within the power socket or around the power plug, or if the internal temperature increases due to lack of air circulation.
Do not allow liquids to come into contact with the unit or power supply.	Fire, electric shock or personal injury may occur.
Keep the mains power socket (where the power cord is connected) unobstructed.	The power cord must be disconnected to cut off power to the product when an issue occurs. Note that the product may not be completely powered down by only using the power switch on the product.
Do not use a damaged power cord or plug, or a loose power socket.	An electric shock or fire may result.
Do not power multiple products from a single power socket.	Overheated power sockets may cause a fire.
Do not touch the power plug with wet hands.	An electric shock may result.
Insert the power plug all the way into the socket so that it is not loose.	An unsecured connection may cause a fire.
Connect the power plug to an earthed socket.	Failure to connect use an earthed socket may result in an electric shock or injury.
Do not bend or pull the power cord with force. Be careful not to leave the power cord underneath a heavy object.	Damage to the power cord may result in fire or electric shock.
Do not place the power cord near heat sources.	A fire or electric shock may result.
Only use the power cord provided (if applicable).	A fire or electric shock may result.
Only use the power supply provided with the product (if applicable).	A fire or electric shock may result.
Do not disconnect the power cord while the product is being used.	The product may become damaged by electric shock.
Cambrix OEM modules are susceptible to Electrostatic Discharge (ESD). OEM modules should be handled in an ESD safe area.	Damage to your Cambrix OEM module may occur.
There are sharp edges, corners and components. Suitable protective equipment must be worn during handling of Cambrix OEM modules.	Personal injury may occur.
No power supply is shipped with a Cambrix OEM module. Please contact your power supply manufacturer directly for safety related information.	Fire, electric shock or personal injury may occur. Please see the installation instructions for your Cambrix product for correct wiring requirements.
When mounting a Cambrix OEM module, all mounting holes should be used with appropriate spacers, screws and a torque level of 1.1Nm.	Damage or personal injury may occur.

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**This product can expose you to chemicals, including Nickel, which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, go to [www.p65Warnings.ca.gov](http://www.p65Warnings.ca.gov)**

**If in any doubt about how to correctly operate or maintain your Cambrix system product or OEM module, or if any part of this safety document is unclear or confusing, please do not use your product and contact Cambrix before proceeding further.**

