

Charge One Device over USB-A with Power over Ethernet and CABM

LAVA's uRaven-A PoE Power Adapter splits power and network data from a Power over Ethernet (PoE) input. When the PoE signal travels into the device through an Ethernet port, the adapter strips off the power component and sends it to a USB-A port on the other side of the device. This port can be used to power a USB peripheral or charge a mobile device. The unit acts a 5-volt DC regulated power supply and is able to provide up to 2 amperes to the USB-A port. The network portion of the signal can be accessed through a second 10/100-capable Ethernet port on the back of the device. It can be used to provide a wired network connection to a computer. The power adapter also features Continuously Active Battery Modulation (CABM) to protect the device from overcharging and prevent battery bloating, allowing for 24/7 operational use.



With PoE technology, the adapter does not require a dedicated AC source, as it is fully powered through its middle Ethernet port. PoE allows greater options for placement as the mobile device or peripheral can be used in areas with limited electrical outlets. It can be placed up to 328 ft (100 m) from the power source.

CABM is designed to protect the mobile device from overcharging and its battery from bloating, which can cause severe damage. The plug-and-play technology monitors the mobile device as it charges and when the current slows, indicating the device is near a full charge, the adapter disconnects charging power to the mobile device. The mobile device can still communicate with the USB port but the mobile device's battery is allowed to discharge. After a preset number of hours*, the mobile device will begin to charge again.

The power adapter's USB-A port allows you to connect any standard charging cable (use of the cable originally supplied with the mobile device is recommended) to the uRaven-A. This makes it a universal power adapter. It is configured at LAVA's factory to work with Android mobile devices, Raspberry Pi and so on. However, for use with Apple products, two jumpers inside the adapter must be adjusted. (See the Installation Guide for more specific information.)

Any standard Ethernet Cat 5/5e/6 cable can be used with the power adapter but it is recommended to use one from a reliable dealer.

**The time between charges can be programmed using the adapter's blue Mode Select button. Please see the Reference Manual for more information.*