

cambri•nix

U16C

16 Port Universal USB Charging Component



Saelig Company, Inc. 71 Perinton Parkway, Fairport, NY 14450 USA 1-585-385-1750

info@saelig.com

www.saelig.com

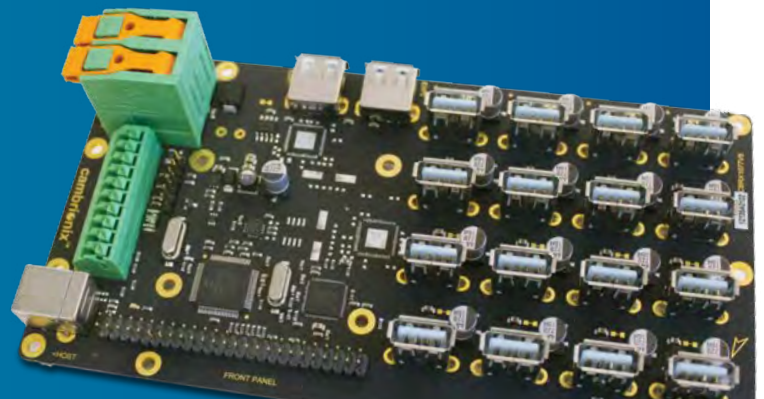
16

USB ports



BENEFITS

- **Scaleable**
Charge up to 16 devices simultaneously at manufacturer approved speeds!
- **Entry into a fast growing market**
Accelerate your time to market with the pre-certified and electrically safe U16C.
- **One product for all**
The U16C is truly universal (with firmware updates), meaning that whatever USB devices become available in the future, they will be fully supported.
- **Expandability**
The U16C can be daisy-chained to increase the number of charging ports up to 96. Use a single host connection to update firmware on all U16C devices in the chain.
- **Lead the charge**
Charges any USB chargeable device at the optimal rate, helping to extend the usable life of the device's battery and avoid any potential issues with incorrect charging procedures.
- **Safety**
All cambrionix products/components are CE Marked, UL Listed/Recognised (traceable at UL.com) and EMC tested. All products/components designed in the UK and manufactured at UL Audited facilities.
- **Stay in control**
Total control over individual port function allows for novel usage in, for example, charging kiosks, schools, restaurants etc.
- **Bring Your Own Device (BYOD)**
You can mix tablet devices, cellphones, MP3 players, 3D glasses etc on the ports. Everything still functions as normal!





The U16C is a universal charge only board allowing multiple devices to be charged simultaneously.

The U16C can charge all devices that can be charged through a USB connection from tablets and ChromeBooks to mobile phones, MP3's, e-readers, 3D Glasses and much more! The U16C is compatible with the cambrionix LiveView app which provides the user with complete control and monitoring.

It is also possible for the U16C to be manufactured in variants which offer many different connector options. This allows the U16C to be mounted within many different types of enclosure and in different orientations, making OEM integration much easier.



OVERVIEW

The U16C is ideal for use in Schools, retail environments, hotels, businesses... anywhere where customer services could be further enhanced by offering universal charging facilities to staff or customers.

The U16C is so flexible you can charge multiple device types simultaneously, irrespective of manufacturer. Tablets, ChromeBooks, Cellphones, MP3 players, Handheld Game consoles, 3D Glasses, e-readers, in fact the U16C can charge practically anything that can be charged via a USB port. Whatever device is connected, our Very Intelligent Charging protocol will ensure the correct charging profile is used, maintaining battery performance and extending battery life without risking damage to your (or your customers') expensive technology.



The future proof design ensures that even if you upgrade or buy additional devices in the future, you'll always be able to charge them at their optimum rate with the U16C. The latest firmware is always available on our website.

The U16C can also be linked to an LCD display, or LEDs, to provide visual indication of individual port and battery status. Security can be enabled to trigger an audible or visual alarm should devices be unplugged from the U16C. The LCD can display animated charge level icons, text, you name it!

For the Cart/Case manufactures, like all products from Cambrionix, the U16C component accelerates your time to market in all charging developments. The low-cost and high performance of the U16C will help you expand your product portfolio into these new and fast-growing markets.

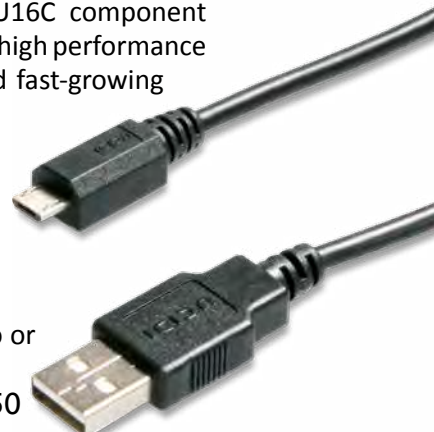
The U16C unit can be easily customised for unique use with an option to re-brand the firmware updater application and LCD text. The options available allow you to use an off-the-shelf product, and at the same time, offer a product designed to meet the individual needs of your clients and customers.

Contact our technical sales team for more information and to arrange a demo or sample unit.

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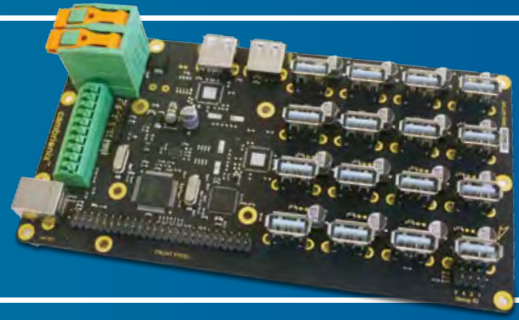
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PACKAGE CONTENTS

The board (which is available in variants with spade terminals for power and vertical host/expansion ports).
Power supply (optional)



BASICS

Product Code:	CBRX1077
Functionality:	Charge-only
Number of Ports:	16 Ports
Power Supply (recommended):	Meanwell SP-200-5
Compatible Devices	Universal and Future Proof*
Current per Port:	2.1A
Control Interface:	LiveView App. Terminal command interface, VCP 115,200 8N1. Shared with USB host port.
Expansion:	Up to 96x ports via dual on-board expansion connectors.
Charging Method:	Adaptive Cambrianix Very Intelligent Charging protocol**
Delivered as:	Component for designing into an enclosure.

U16C

Input Voltage:	5.2V DC
Input Current:	40A
Input Connector:	Wire / Spade Terminals
Output Voltage Per Port:	5.2V Max
Output Current Per Port:	2.1A Max (Dynamically adjusted to match device requirements).
Output Power (Total):	192W Max
Output Connectors:	USB-A Type receptacle x16 / Up to 2x Expansion ports for U16C daisy chaining.
Dimensions:	170mm (l) x 90mm (w) x 10mm (h) approx.

POWER SUPPLY

Input Voltage:	85 ~ 264V AC
Input Current:	3.5A~ 115V AC
Input Frequency:	47~ 63 Hz
Input Connector:	Screw Terminals
Output Voltage:	5.2V
Output Current:	40A
Output Power:	200W
Output Connectors:	Screw Terminals

* This device is updateable via firmware upgrades to ensure compatibility with new devices that are released to the market.

** This automatically adapts to different devices to ensure they are charged at the maximum rate possible.



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