The Connectivity of Tomorrow is Here.
# Guide to Smarter Workspace Technology: USB-C

Kensington®

USB-C
Connectivity Has Changed

You may have heard it called USB-C, USB Type-C, or a few other variations, but they all mean the same thing.

The wave of products featuring the new USB-C ports has already started and will only continue to grow. It's not yet the standard in connectivity, but it soon will be. USB-C offers a host of capabilities in just a single cable. It can charge a device, transfer data at high speeds, sync photos and music, and even output 4K video or audio.

Change doesn't have to be hard. Count on Kensington to take the fear out of your new technology.

USB - A
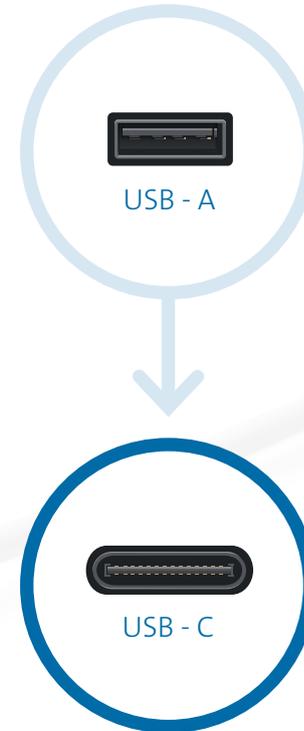
USB - C

SOLUTIONS FOR A SMARTER WORKSPACE

USB-C
The USB-C Advantage

Power, Charge and Sync with just a single cable

Too good to be true? No. The reality of being able to connect your laptop and power it with a single cable has arrived thanks to USB-C.

SMART
Transfer data at up to 10 Gbps, which is 2X faster than USB 3.0 and 20X faster than USB 2.0. It's also reversible, so there's no up or down orientation and no wrong way to plug it in.

SAFE
Supports power up to 100W so you can charge laptops, printers, hard drives and monitors as well as tablets and smartphones.

SIMPLE
Just one cable reduces cord clutter and can allow you to charge, transfer data at incredibly high speeds, sync photos and music, and deliver 4K video in Ultra HD.
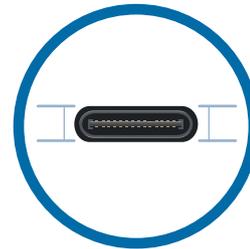
• 2.4mm Thin
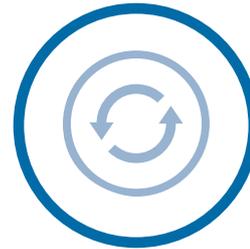
• Reversible Orientation
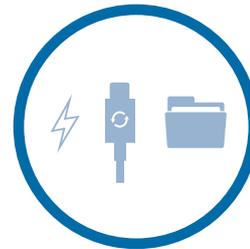
• 1 Cable to Power, Sync, Charge, and Transfer Data

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USB-C
Connectivity

Together with the EU's legislation insisting on a common standard for consumer-electronics charging that goes into effect in 2017, USB-C represents a watershed moment for proprietary ports and connectors.

Laptop computer manufacturers will be adopting universal USB-C as the standard for users to dock, connect, and charge their laptops. Inserting your laptop into a manufacturer specific dock at the start of each day will become history.

With the backing of Apple, HP, Microsoft, Intel and other members from the USB Implementers Forum, USB-C will become the default connector of choice for the tech industry.
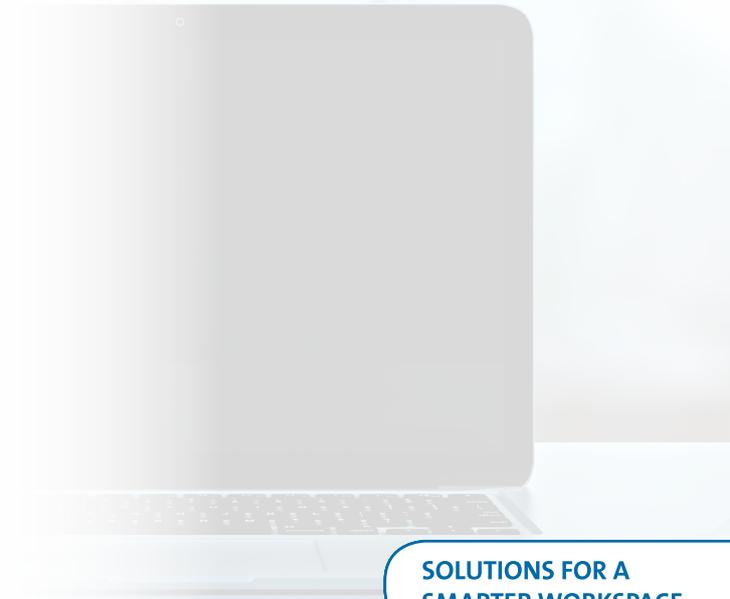
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USB-C
Convenience

USB-C connectors allow for the transfer of video, data and power. The cable connector is reversible, meaning it can be inserted in either orientation, similar to Apple's Lightning connector. This eliminates the frustration of inserting the cable upside down.

USB-C has the capability to combine power, video and data in one, 2.4mm thin connector

See how USB Ports have evolved:

📁 Data Transfer   🔄 Reversible
⚡ Low Power   ⚡ High Power

USB - B	Display Port	USB - A	Power	Micro USB	USB - C
10.4 mm	4.7 mm	4.5 mm	4.0 mm	1.8mm	2.4 mm
📁	📁	⚡📁	⚡🔄	⚡📁	⚡🔄📁

USB-C
Caution

USB-C comes in different flavours, and while the industry works out the best way to clarify the differences, here's what you need to know before selecting a USB-C cable or adapter.

It's possible that your USB-C port is not configured to support all three features in a single cable: power delivery, data transfer, and/or DisplayPort Alternate Mode. In fact, a lot aren't. For instance, the ChromeBook Pixel's USB-C port does not support power delivery and the HP Pavilion X2 does not support DisplayPort Alternate Mode.

There are 5 different USB power profiles, each delivering a different amount of power. The profile your USB-C device requires and allows is dictated by your device. It's not a setting you can change. Dependent upon the power requirements of your device, one of five USB-C power profiles will be used.

10W Profile 1

18W Profile 2

36W Profile 3

60W Profile 4

100W Profile 5

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USB-C
Devices

Of the USB-C devices listed below, the ChromeBook Pixel and MacBook allow for charging via its USB-C port. USB-C ports have the capability of transferring power.

As the Chromebook Pixel's power specifications require 60W delivered at 20V/3A, profile 4 is dictated by the Pixel's motherboard. When selecting a USB-C charger (or powered port) and cable, you'll need to be sure both can support the power your device requires.

	Nokia N1 (Tablet)	2015 MacBook (Laptop)	ChromeBook Pixel (Laptop)	Letv S1 Pro (Smartphone)
Device				
Data Rate	480 Mbps (USB 2.0)	5 Gbps (USB 3.1, Gen 1)	5 Gbps (USB 3.1, Gen 1)	5 Gbps (USB 3.0)
Power	5V, 2A (10W)	14.5V, 2A (29W)	20V, 3A (Profile 4, 60W)	5V, 2A (10W)
Video	Alternate Mode	Alternate Mode (4K)	Alternate Mode (4K)	Alternate Mode

Kensington USB-C Solutions

CA1000 USB-C to USB-A Adapter - K33992WW

- USB 3.1 Gen 1 technology for SuperSpeed data transfer and syncing up to 5 Gbps, which is 10x faster than USB 2.0
- Depending on host device, up to 3 AMPs charge a smartphone or tablet
- Compatible with Windows® 10, 8.1, Mac® OS X 10.10 and Chrome OS 44

CH1000 USB-C 4-Port Hub - K33995WW

- Hub offers 3 USB-A ports and 1 USB-C port for simple device expansion
- USB 3.1 Gen 1 technology for SuperSpeed data transfer and syncing up to 5 Gbps, which is 10x faster than USB 2.0
- Compatible with Windows 10, 8.1, Mac OS X 10.10 and Chrome OS 44

Connect with our Connectivity Experts:
Kensingtonpartner.com/connectivity

About USB

USB Implementers' Forum (USB-IF) is a non-profit organization to promote and support the Universal Serial Bus.
It was formed in 1995 by the group of companies that developed USB. Notable members include Apple Inc., Hewlett-Packard, NEC, Microsoft, Intel, and Agere Systems.

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