Ochno Power Conference

One socket. For everything. Smart!

P/N: O-PC-3

Ochno Power Conference is the platform for a user friendly and smart meeting room. 4 USB-C outlets provides everyone in the room quick access to charging, a simple push of a button, attach the laptop or mobile to the TV and all video conferencing equipment in the room. The solution minimizes the hassle of getting the video meeting started and making it easy to change who runs the meeting. Everything nicely built into a conference table with a minimum of cables.

Ochno Power Conference can also be connected to the Ochno Operated service. A range of functions that optimize and simplify the office workplace in various ways. Monitoring and control of all connected devices ensures that errors are quickly detected and can be solved. Advanced energy analysis and control enables lower power consumption in the office. Automatically update firmware of Ochno Power Conference and connected devices.
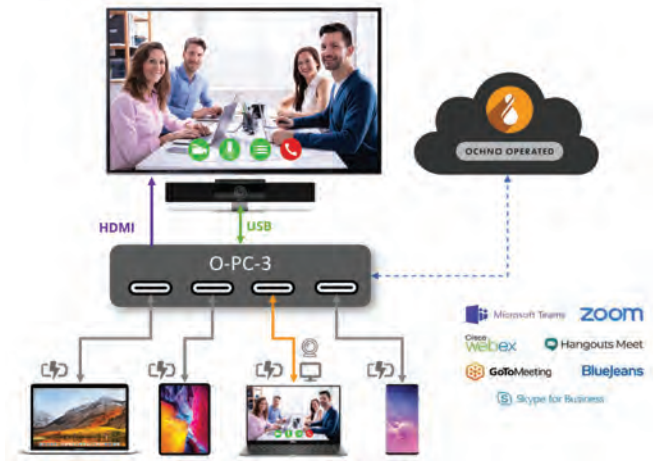

Clean desk

Ochno has the solution to minimize the number of cables and hide away all other technology.

Smart office

Ochno Operated is the tool ensure the optimal quality of user experience, energy use and work environment in the office.

Solutions for meeting rooms

Ochno Power Conference has 4 USB-C sockets, each of which provides:

- 100W charging of computers and mobiles

- Video transmission up to 4k @ 60hz

- USB 3.0 communication pass-through

- WIFI or Ethernet connection for remote management

- Power supply and control of any connected smart USB-C devices such as LED lights and sensors.

Ochno Power Conference has a world unique switching function which allows you to choose which of these four outlets will forward the image and the USB communication to the connected equipment. Screen or projector is connected via HDMI and USB devices such as camera, speakers and microphone are connected via USB-A ports. When the user press the button, equipment is switched to that device and you can easily run the video meeting from your laptop, mobile or tablet. Other laptops or mobiles continue to charge without interruption.

Best of two worlds

User friendly solution for meeting rooms that require both a fixed video conferencing solution (such as MTR) and need of Bring Your Own Device (BYOD) connection.

The user can easily show the laptop's screen through the fixed conference.

To enable different meeting platforms such as Google, Zoom and BlueJeans, the user can through a simple click run the meeting on the laptop (BYOD) instead.

MTR / BYOD Switch
Make it easy to both meetings from the laptop or from a fixed video conference system like Microsoft Teams Room or Google Meet.

For all users

Unlike many other technologies, USB-C doesn't require any special drivers installed on the computer. Wireless options or DisplayLink-based solutions can introduce various user problem in that regard.

The combination of video transfer up to 4K and access to video conferencing also up to 4K is something that USB-C is very suitable for. The bandwidth required for a smooth and high-quality meeting is not possible to achieve with wireless or USB-A alternatives. And with USB-C, you are sure never to run out of power while you present.
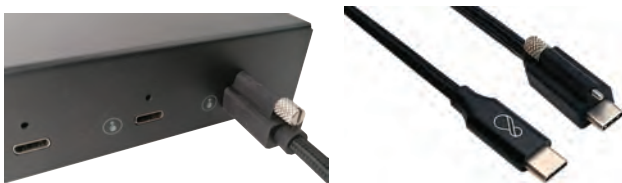

To support older laptops without USB-C port, Ochno provides an adapter with HDMI and USB-A input and USB-C output. No driver is needed, always plug'n'play.
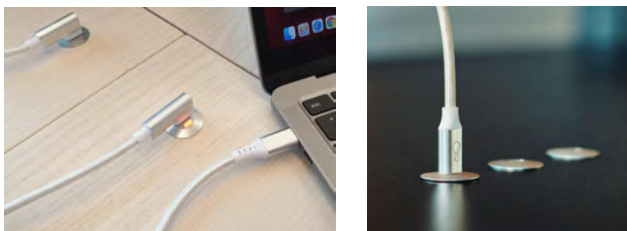
Table integration: Pull-out cables

With pull-out cables the users have always easy access to screen and video conference. Just pull-out the cables and connect. With up to four USB-C cables there are always easy accessible high-speed charging.

Integrated LED push-buttons makes it easy to select active port. The system can be configured for manual or automatic switching when a laptop is connected.

Ochno provides optimized, 2 meter long USB-C cables to be used as pull-out cables. Available in black or white color. Integrated screw-lock ensures that they don't fall out.

Table integration: Sockets

To get a more stylish and easy accessible solution, Ochno provides USB-C sockets that can be integrated into the surface. Any USB-C cable can then be used to attach the laptop or phone. For the convenience of the user, Ochno provides more suitable right-angular cables.

There is also options with and without a LED-button that is used to show current status and makes it possible for the user to select input source and control BYOD / fixed video conference switching.

The socket is made in scratch-free anodized aluminium and is available with aluminium, black, brass and copper surfaces.

Standards

Ochno Power Conference is connecting laptops using USB Type-C Alt-Mode DisplayPort 1.2-1.4 for video transfer and USB 3.0 for communication with USB-devices.

Video output is HDMI 2.0 and USB-devices are connected using USB-A sockets.

The HDMI-adapter is receiving HDMI 1.4 or HDMI 2.0 for video and USB-A 2.0 for communication.

No drivers needs to be installed or be pre-installed for video or USB-communication to work.

Each USB-C outlet can charge up to 100W (20V/5A). Total charge capacity is 220W and when multiple laptops are charging simultaneously the power is shared between them.

Management

Ochno Power Conference default configuration and firmware is pre-configured for the most common use-case. If changes to the default settings are required, the companion application Ochno Management Console can be downloaded and with that all possible settings can easily be configured.

It is also possible to connect the unit to the cloud service Ochno Operated which allows for fleet management and various remote management functions.

Smart office

Ochno Power Conference can be connected to the cloud service Ochno Operated and a number of additional functions will be available:

- Monitor hardware status, remote debug and remote update software.

- Integration with other cloud services and technology solutions in the meeting room. Analyze occupancy rate across the office

- Monitor indoor climate and air quality

- Dynamic and human centric lighting control

- Energy measurement and optimization

Ochno Operated service is enabled by connecting the Power Conference to the Internet via WIFI or fixed Ethernet connection. The service can be easily accessed via mobile app or web portal.

Security

Ochno Power Conference can be run totally off-line in any corporate network. Connectivity is only needed if Ochno Operated is activated for management and smart office functions.

Both video and USB communication is passed through the device without any access to the actual payload. It is similar to using a regular USB hub or passive hdmi switch.

There are no USB Ethernet access in the device so there is no awareness of any Ethernet or IP-based communication that might run ontop of the USB signalling.

Specifications

WIFI & Ethernet: Optional connectivity to cloud-based management

4 x USB Type-C Outlets
- 100W charging / port
- Up to 4k@60Hz video transmission
- USB 3.0 communication for video conferencing equipment

USB-A: Connect camera, speakers and microphones

USB-A: Connect LED-buttons, sensors and contol systems

HDMI: Connection to TV or projector

General
Product name: Ochno Power Conference
Part number: O-PC-3
EAN-code: 7350113051431
Contents: Main unit. power adapter, mounting brackets, manual.
Warranty: 3 years
Dimensions: 215 x 130 x 33 mm,
Weight: 680g
Certifications: CE, FCC, RoHS

Power Supply
Adapter: Seperate unit
Input: 85 - 264 V AC, 2.4A max, 1 meter AC-plug included
Output: 20V, 10A. 4-Pin DIN med locking mechanism
Size: L 161 x W 54 x H 33 mm
Weight: 560g
Certifications: CB / UL / cUL / FCC / GS / CE / PSE / BSMI / CCC

Environment
Safety class: IP20, 90% RH
Ambient temperature: 5° – 40°C.
Protection: Over-current, over-voltage, over-temperature

Connections
Docking: 4 x USB Type-C sockets, with single locking screw (M2).
USB Devices: 2 x USB-A 3.0 sockets for connecting video conferencing devices such as camera and speakers
Accessories: 2 x USB-A 2.0 sockets for connecting special accessories such as LED-buttons and RS232 adapter.
HDMI: HDMI 2.0 for connection to TV or projector.
Ethernet: RJ45, 100Mbit/s, Full-duplex, management only
WIFI: External antenna. 2.4Ghz (not 5Ghz), management only

Functionality
USB-C video-in: Alt-Mode DisplayPort 1.1 to 1.4. 2 or 4 lanes (configurable). Max bandwidth 32 Gbit/s. Up to HDR3.
HDMI video-out: HDMI 2.0b. HDCP 1.4 och 2.3. 6 Gbit/s
- 2 DP Lane mode: DP 1.2 = 4k30Hz, DP 1.4 = 4k60Hz
- 4 DP Lane mode: DP 1.2 = 4k60Hz
USB Pass-through:
- 2 DP Lane mode: USB 2.0 HS & USB 3.1, 5 Gbit/s
- 4 DP Lane mode: USB 2.0 HS (480 Mbit/s)
Charging USB-C: 5V / 3A, 9V / 3A, 12V / 3A, 15V / 3A, 19.5V / 5A, 20V / 5A.

Innovated and designed in Sweden

Accessories

USB-C Cable, right angular

USB-C cable with one plug right angular. Suitable for use together with Ochno Socket.

Part number	Specification	Length	Color
O-USBG2-70-2	100W, Video, USB 3.1	70cm	White/Silver

USB-C Cable, straight

Regular USB-C docking cable

Part number	Specification	Length	Color
O-USBG2-70-1	100W, Video, USB 3.1	70cm	White/Silver

USB-C Cable, with locking screw

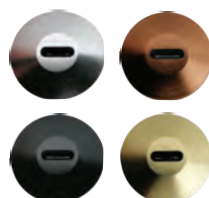USB-C cable optimized for pull-out installation with one end having a locking screw.

Part number	Specification	Length	Color
O-USBG2-200-2	100W, Video, USB 3.1	200cm	White
O-USBG2-200-3	100W, Video, USB 3.1	200cm	Black
O-USBG2-50-2	100W, Video, USB 3.1	50cm	Black

Ochno LED Socket

USB-C socket with integrated LED button for switching control

Part number	Specification	Length	Color
O-SWO-100-1	100W, Video, USB 3.1	100cm	Aluminium
O-SWO-100-S-1	100W, Video, USB 3.1	100cm	Black

Ochno Socket

USB-C socket in anodized aluminium. Part number pattern:

XXX =Length in cm, Y = Color (= Alu, K = Copper, M = Brass, S = Black)

Part number	Specification	Length
O-DO-XXX-Y-2	100W, Video, USB 3.1	100cm

HDMI + USB-A IN to USB-C Out Adapter

Use this to connect laptops without a USB-C port to Ochno's Power Conference or any third-party USB-C dock or monitor.

Part number	Specification	Color
O-HDMI-TO-USBC-2	4k video, USB 2.0	White/Silver