

DIGITAL OFFICE WITH USB TYPE-C SOLUTIONS

PERFECT INTEGRATION FOR THE HOME OFFICE,
OFFICE OR MOBILE WORK





YOUR DATA NETWORK PROFESSIONAL WITH PERSONALITY

Let us write success stories together: With suitable products and systems, we bring your projects to life - from IT building cabling to data centres and industrial system solutions. We have been at your side for over 30 years. Fast. Reliable. Personal.

As a trading company, we are one of the leading network specialists for structured IT infrastructure. In addition, we are able to manufacture individual products with our own copper cabling and fiber optic production facilities.

We are proud to count 330 employees at nine locations throughout Europe among the EFB team. In addition to numerous sales locations in Germany, we have subsidiaries in Istanbul, Copenhagen and Vienna as well as production sites in Germany and Slovakia. Our customers benefit from an international network in which we operate as a member of the powerful TKH Group.

CONTENT

EFB-Elektronik in profile	2
USB Type-C solutions Perfect integration for the home office, office or mobile work	3
The all-rounder USB Type-C	4
USB Type-C for power supply with Power Delivery	5
USB4 and Thunderbolt 3 USB Cable	6
USB Active Extender	9
USB Docking Station	10
USB Type-C as a video interface	
USB Video Cable	12
USB Video Converter	14
USB Power strips	15

USB TYPE-C SOLUTIONS

PERFECT INTEGRATION FOR THE HOME OFFICE, OFFICE OR MOBILE WORK

With USB Type-C solutions, you adapt your hardware to hybrid work concepts. Regardless of whether you are currently working from home, mobile or in the office. USB Type-C is the interface for all applications: Ultra-fast data transfer, video signals in 8K and power supply with up to 100 W.

With suitable converters and docking stations, you can integrate existing hardware perfectly into your work environment. We will show you what new possibilities the USB Type-C interface offers and what to look out for when selecting a product.



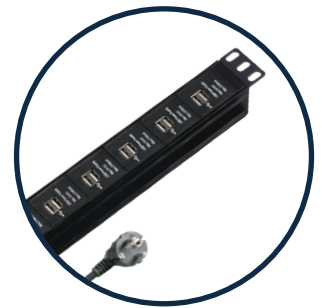
CONNECT



CONVERT



EXTEND



SUPPLY



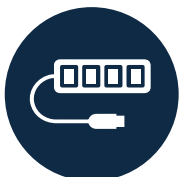
CONNECT

Transmission of data at up to 40 Gbit/s and video signals with a resolution of up to 8K at 60Hz in DP Alternate Mode.



CONVERT

By using converters and USB video cables, you can integrate numerous connection technologies (HDMI, DisplayPort, VGA, RJ45, USB-A and many more). This means that you can continue to use existing devices and cables.



EXTEND

Expand existing ports with USB Type-C docking stations. This turns your notebook into an all-rounder. You can also use an active extension to expand your existing cabling and control more distant end devices (e.g. printers).



SUPPLY

Supply connected devices with up to 100 W Power Delivery (e.g. for notebooks, tablets or smart-phones). We offer you the right cables and USB socket strips.

THE ALL-ROUNDER

USB TYPE-C

- SuperSpeed USB up to 40 Gbit/s
- USB Power Delivery up to 100 W
- Compact and twist-proof connector
- Can be used as a video interface (Alternate Mode)



TYPE-C PLUG



TYPE-A PLUG

USB STANDARD	MAX. SPEED	MAX. CURRENT/POWER	CONNECTOR
USB4 Gen3x2	40 Gbit/s	5000 mA / 100 W	Type-C
USB4 Gen3x1	20 Gbit/s	5000 mA / 100 W	Type-C
USB3.2 Gen2x2	20 Gbit/s	5000 mA / 100 W	Type-C
USB3.2 Gen2	10 Gbit/s	5000 mA / 100 W	Type-A; Type-C
USB3.2 Gen1*	5 Gbit/s	3000 mA / 15 W	Type-A; Type-C
USB2.0	480 Mbit/s	500 mA / 2.5 W	Type-A; Type-B; Type Mini-B; Type Micro-B; Lightning
USB1.1	12 Mbit/s	500 mA / 2.5 W	Type-A; Type-B

*Behind the USB3.2 Gen1, USB3.1 Gen1 and USB3.0 standards are the same specifications. This is just a name change.

USB TYPE-C BECOMES THE STANDARD IN THE EU

The EU has agreed on standardizing charging cables for small and medium-sized electronic devices. From autumn 2024, new smartphones, tablets, computer mice, etc. must be able to be charged using USB Type-C. This requirement also applies to laptops 40 months later. This should make it easier to use and avoid waste.



USB TYPE-C

FOR POWER SUPPLY WITH POWER DELIVERY

One of the most important features of USB cables is the power supply of devices while simultaneously transferring data. This is made possible by the Power Delivery specification.

POWER DEVICE STANDARD

The USB Powered Delivery Specification specifies charging properties that all USB devices that work with the USB protocol must comply with. Five profiles are specified, which are graded according to performance level. The correct profile is automatically set between the USB charger and the end device.

USB POWER DELIVERY PROFILE

Profile	Voltage	Current	Power	End Devices
1	5 V	2 A	10 W	small mobile end devices, smartphones
2	5 V	2 A	18 W	tablets, smartphones
	12 V	1,5 A		
3	5 V	2 A	36 W	notebooks, small docking stations, end devices with own CPU
	12 V	3 A		
4	5 V	2 A	60 W	High-power notebooks with big displays, hubs, docking stations
	12 V	3 A		
	20 V	3 A		
5	5 V	2 A	100 W	docking stations and multi-charging stations
	12 V	5 A		
	20 V	5 A		

Profiles 4 and 5 require special Type-C cables with integrated chips in the connectors that control voltages and currents more intelligently. A power supply with 60 or even 100 W can only be produced with Type-C cables. A combination with the Type-A USB is not possible.

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SUITABLE USB
CABLES CAN BE
FOUND ON PAGE 7

USB-PD REVISION 3.1

In order to operate more power-intensive devices via Type-C in the future, a new revision of the specification has been published. With the USB-PD revision 3.1, the possible power range is extended to 240 W. This new range between 100 - 240 W is called Extended Power Range (EPR). In terms of power, the Standard Power Range (SPR) is below this. In order

Mode	Voltage	Current (max.)	Power (max.)
SPR	5 V	3 A	15 W
	9 V	3 A	27 W
	15 V	3 A	45 W
	20 V	3 A	60 W
	20 V	5 A	100 W
EPR	28 V	5 A	140 W
	36 V	5 A	180 W
	48 V	5 A	240 W

to use the Extended Power Range, you need special chip-ped cables, which ensure that the end device recognizes whether an EPR-capable cable is connected. If this is not recognized, the previous system with the 5 profiles is used. In this context, notebooks are probably the most important end devices for the EPR, and almost all of them could be supplied with a USB power supply in the future. This would also result in a unified connector for charging of notebooks.

USB4 AND THUNDERBOLT 3

A huge problem with the Type-C interface was its use for both USB and Apple's Thunderbolt applications. Although both are partially compatible with the Type-C interface, they are not compatible with each other. Apple devices with a Type-C interface are not necessarily compatible with other Type-C components.

USB4 now combines both worlds in one standard. In this case, it is a Thunderbolt 3 cable that has been enhanced with USB features. USB4 cables can be used on conventional PCs with USB ports and are backwards compatible with older USB standards. The use on Apple devices is via the Type-C Thunderbolt 3 interface.

FEATURES:

- Data speed from 20Gbit/s and 40Gbit/s
- Backward compatible to older USB standards
- Compatible with Thunderbolt 3
- Power supply according to Power Delivery standard



USB4 Cable 40Gbit/s, TB3, 100W

USB4 Gen3x2 cable for connection as data, video and charging cable
40Gbit/s bandwidth
Compatible to Thunderbolt 3
Power Delivery up to 100W
Video resolution up to max. 10K30Hz, 8K60Hz or 4K120Hz
With E-Mark chip for safe power supply
Downgrade compatible to USB3.2 and USB2.0

Connector 1: USB-C plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,8 m

Art.-No.	Colour
EBUSBC40-TB40G.0.8	black



USB4 Cable 20Gbit/s, TB3, 100W

USB4 cable for connection as data, video and charging cable
20Gbit/s bandwidth
Compatible to Thunderbolt 3
Power Delivery up to 100W
Video resolution up to max. 8K60Hz or 4K120Hz
With E-Mark chip for safe power supply
Downgrade compatible to USB3.2 and USB2.0

Connector 1: USB-C plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 2,0 m

Art.-No.	Colour
EBUSBC40-20G.2	black



USB 3.2 Gen.2x2 20Gbit 5A Connection Cable Plug Type-C to Plug Type-C

USB3.2 Gen2x2 SuperSpeed connection cable
20Gbit/s transmission speed
Charging with 100W / 20V / 5A
Reversible and both sides usable type-C plug
With E-Mark chip in the plug

Connector 1: USB-C plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 m

Art.-No.	Colour
K5283-5ASW.x	black



USB 3.2 Gen.2 10Gbit 3A Type-C -C Extension cable, passive

USB3.2 Gen2 SuperSpeed extension with type-C male to type-C female
10Gbit/s transmission speed
Charging with up to 60W / 20V / 3A
Reversible Type-C interface

Connector 1: USB-C plug moulded
Connector 2: USB-C jack moulded

Stock Lengths: 0,2 - 1,0 m

Art.-No.	Colour
EBUSBC-USBC10GE.x	black



USB 3.2 Gen.1 5Gbit 3A Connection Cable Plug Type-C to Plug Type-C

Connector 1: USB-C plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 m

Art.-No.	Colour
K5283-3ASW.x	black



USB 3.2 Gen.1 5Gbit 3A Connection Cable Plug Type A to Plug Type-C

Connector 1: USB-A plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 m

Art.-No.	Colour
K5282-3ASW.x	black



USB 3.2 Gen.1 5Gbit 3A Cable, Type A - Type-C 90° angled

Connector 1: USB-A plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 - 2,0 m - 3,0 m

Art.-No.	Colour
EBUSBC-USBC5GAK.x	black



USB 3.2 Gen.1 5Gbit Adapter Cable Type-C male / Type A female

Connector 1: USB-A jack moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,2 m

Art.-No.	Colour
K5313SW.0,2	black



USB 2.0 Connection Cable Plug Type-C to Plug Type A, Premium

Connector 1: USB-A plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 - 2,0 m

Art.-No.	Colour
K5258SW.x	black



USB 2.0 Cable, Type-C Plug - Type A Plug, Classic

Connector 1: USB-A plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 - 2,0 - 3,0 m

Art.-No.	Colour
EBUSBC-USB20AK.x	black

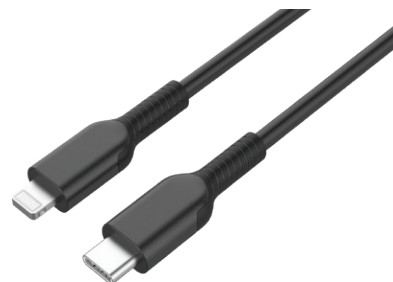


USB 2.0 Cable Type-C Plug to Type-C Plug, Classic

Connector 1: USB-C plug moulded
Connector 2: USB-C plug moulded

Stock Lengths: 0,5 - 1,0 - 2,0 - 3,0 m

Art.-No.	Colour
EBUSBC-USB20CK.x	black



Made for
iPod iPhone iPad

USB 2.0 Type-C to Apple Lightning Cable, MFI cert.

Connector 1: USB-C plug moulded
Connector 2: Lightning moulded

Stock Lengths: 1,0 - 2,0 - 3,0 m

Art.-No.	Colour
EBUSBC-LM.x	black



EB560WS



EBUSBCM-MIKROBF



EB560



EBUSBCM-AF

USB Type-C Adapter

Art.-No.	Description
EBUSBCM-MIKROBF	USB2.0 Adapter Type-C Male - Micro-B Female
EBUSBCM-AF	USB3.0 Adapter Type-C Male auf Type-A Female
EB560	USB 3.2 Type-C Keystone Adapter, black, Type-C-Female/C-Female 10Gbit/s, 60W
EB560WS	USB 3.2 Type-C Keystone Adapter, white, Type-C-Female/C-Female 10Gbit/s, 60W

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YOU CAN FIND MANY
MORE USB CABLES ON OUR
NEW ONLINE PLATFORM:
www.efb-elektronik.de/en

USB TYPE-C ACTIVE EXTENDER



USB 3.2 Active Extender

Active extender cable with Type-C connector (for host device) to Type-A or C-Port (according to device).

Compatible with USB3.2 and downgrade compatible to USB 3.0, USB 2.0

Supports a maximum distance of 10 m (by connecting several cables)

Supports up to 5V/900mA for Type-A and 1.5A for Type-C devices

Hint

1) For a 10Gbit bandwidth, the Type-C host must support 10Gbit transmission.

Art.-No.	Type	Length	Colour
EBUSBC-USBA10GE.5	USB 3.2 10Gbit Type-C to A Extender	5 m	black
EBUSBC-USBC10GE.5	USB 3.2 10Gbit Type-C to C Extender	5 m	black
EBUSBC-USBC-REP.5	USB 3.2 5Gbit Type-C auf C Extender	5 m	black

USB TYPE-C DOCKINGSTATION

EXPAND YOUR DIGITAL OFFICE



USB TYPE-C DOCKINGSTATION

USB Type-C Super Speed Hub 4-Ports with USB Typ C-PD 60W

USB Type-C hub with 4 USB3.0 Type-A ports and 1 Type-C PD port, compact and lightweight, with minimal design

Equipped with USB type-C connection cable, ideal for the new MacBook

Durable structure, elegant sandblasted aluminum finish

Allows you to connect up to 4 USB devices

Supports transfer rates up to 5 GBit/s, allows fast synchronization, leaving more time to work (or play)

PD port supports up to 60W (20V / 3A)

Backward compatible with USB 3.0, 2.0, 1.1 and 1.0

Plug and play



Art.-No.	Description
IUSB31C-HUB4TLY	USB Type-C Super Speed Hub 4 x USB 3.0 Typ-A , 1x USB Type-C PD 60W



USB Type-C Docking Station to 3 x USB3.0, 1x HDMI 4K30Hz, 1x Type-C PD

USB Type-C docking Station with 1 x HDMI 4K, 3 x USB A and 1 x USB Type-C PD port
Expand your Type-C host device (e.g. notebook) with additional USB3.0 and HDMI 4K30Hz ports.

3 x USB-A 3.0 ports for fast charging and data transfer up to 5 Gbit/s

1 x Type-C PD port with up to 80W

Robust metal housing



Art.-No.	Description
IADAP-USB31-DOCK4	USB Type-C Docking Station to 3 x USB3.0, 1x HDMI 4K @ 30Hz, 1x Type-C PD



USB Type-C Docking Station to 2x USB3.0, HDMI, VGA, RJ45, USB Type-C, SD-Slot

Multiport USB-C 8-in-1 docking station with expansion ports for
USB-C PD (up to 87W charging power), HDMI port (max. 4K30Hz), one VGA port (max. 1080P), one Gigabit Ethernet port, SD/TF card slot reader and 2 x USB 3.0 ports

Ultra-fast data transfer of up to 5 Gbit/s and the HDMI port allows mirroring or extending the video signal on an HD monitor with up to 4K30Hz resolution

Stylish and slim design: aluminum housing, with fixed Type-C connection cable

Easy operation: no installation or software required. An ideal USB-C expansion hub for all USB-C devices



Art.-No.	Description
IADAP-USB31-DOCK3	USB Type-C Docking Station to 2 x USB3.0, HDMI, VGA, RJ45, USB Type-C, SD-Slot

USB TYPE-C AS A VIDEO INTERFACE

ALTERNATE MODE



In addition to the well-known functions, the Type-C connector offers the possibility of combining the connector with established video interfaces. This is based on a so-called Alternate mode, in which the properties of the video standard used are implemented. Analogous to the well-known video standards HDMI, DisplayPort 1.2, 1.4, 2.0 or Thunderbolt there are Alternate modes. For cost reasons, mainly DisplayPort alternatives are used, which can also provide HDMI/DVI output at the same time. The properties of the DisplayPort Alternate mode are analogous to the normal DisplayPort standard. Thus you can achieve a resolution of up to 8K at 60Hz with modern Type-C video cables.

The compact size of the Type-C socket makes it particularly attractive for use in mobile devices. Thus Tablets, smartphones and notebooks can be equipped with an interface for modern video output without the devices losing their compact dimensions.

OVERVIEW VIDEO STANDARDS

STANDARD	ALTERNATE DP 1.2	ALTERNATE DP 1.4A	ALTERNATE DP 2.0
Max. resolution	4K @ 60Hz	5K @ 60Hz	10K @ 60Hz
Max. resolution with compression (DSC)	-	8K @ 60Hz	16K @ 60Hz
Compatible with	HDMI, DVI, VGA	HDMI, DVI, VGA	HDMI, DVI, VGA



USB Type-C - DisplayPort Cable

Type-C to DisplayPort connection cable for connection between a USB Type-C device like PC/Notebook/Tablet to a DisplayPort display
Supports DisplayPort 1.2/1.4 Alternate and HDCP
Thunderbolt 3 compatible

 Stock Lengths: 2,0 m

Art.-No.	Description	Colour
EBUSBC-DP12K.2	USB Type-C - DP1.2 Cable, 4K60Hz	black
EBUSBC-DP14K.2	USB Type-C - DP1.4 Cable, 8K60Hz	black



USB Type-C - HDMI Cable

Type-C to HDMI connection cable for connection between a USB Type-C device like PC/Notebook/Tablet to a HDMI display
Supports DisplayPort 1.2/1.4 Alternate and HDCP
Thunderbolt 3 compatible

 Stock Lengths: 2,0 m

Art.-No.	Description	Colour
EBUSBC-HDMI-4K60K.2	USB Type-C - HDMI Cable, 4K60Hz	black
EBUSBC-HDMI-4K30K.2	USB Type-C - HDMI Cable, 4K30Hz	black
EBUSBC-HDMI-8K60K.2	USB Type-C - HDMI Cable, 8K60Hz	black



USB Type-C - DVI Cable, 1080P

Type-C to DVI connection cable for connection between a USB Type-C device like PC/Notebook/Tablet to a DVI display
Support DisplayPort 1.2 Alternate mode with max 1080P resolution and HDCP
Thunderbolt 3 compatible

 Stock Lengths: 2,0 m

Art.-No.	Description	Colour
EBUSBC-DVIK.2	USB Type-C - DVI Cable, 1080P	black



USB Type-C - VGA Cable, 1080P

Type-C to SVGA/VGA connection cable for connection between a USB Type-C device like PC/Notebook/Tablet to a SVGA/VGA display
Support DP1.2 Alternate mode with max 1080P resolution
Thunderbolt 3 compatible

 Stock Lengths: 2,0 m

Art.-No.	Description	Colour
EBUSBC-VGAK.2	USB Type-C - SVGA/VGA Cable, 1080P	black

The shown video cables only work in the indicated signal direction. Data transmission is not possible with reversed cabling!



USB TYPE-C VIDEO CONVERTER

THE PERFECT COMPANION FOR YOUR CONFERENCES



EBUSBC-HDMI-4K60



EBUSBC-HDMI-8K60

USB Type-C - HDMI Adapter

With the USB Type-C to HDMI adapter (DP Alternate mode) you can connect a monitor with an HDMI port to the Type-C port of your PC / laptop / tablet. Supports the DP1.2 / 1.4 Alternate mode
Supports RGB / YCbCr 4: 4 / YCbCr 4: 2: 2 / YCbCr 4: 2: 0, bit depth: 6bit , 8bit, 10bit, 12bit, HDR, HDCP
Thunderbolt3 compatible
USB bus powered (no external power supply)

Art.-No.	Description	Colour
EBUSBC-HDMI-8K60	USB Type-C - HDMI Adapter, 8K60Hz	white
EBUSBC-HDMI-4K30	USB Type-C - HDMI Adapter, 4K30Hz	black
EBUSBC-HDMI-4K60	USB Type-C - HDMI Adapter, 4K60Hz	black



EBUSBC-DP-4K60PD



EBUSBC-DP-8K60

USB Type-C - DisplayPort Adapter

With the USB Type-C to DisplayPort adapter (DP Alternate mode) you can connect a monitor with a DisplayPort port to the Type-C port of your PC / laptop / tablet. Supports DisplayPort 1.2 or 1.4 Alternate mode
Thunderbolt3 compatible
USB bus powered (no external power supply)

Art.-No.	Description	Colour
EBUSBC-DP-8K60	USB Type-C - DP1.4 Adapter, 8K60Hz	black
EBUSBC-DP-4K60	USB Type-C - DP1.2 Adapter, 4K60Hz	black
EBUSBC-DP-4K60PD	USB Type-C - DP1.2 Adapter, 4K60Hz, with Type-C Charging Port	white



USB Type-C - DVI Adapter, 1080P

With the USB Type-C to DVI adapter (DP Alternate mode) you can connect a monitor with a DVI port to the Type-C port of your PC / laptop / tablet. Supports DisplayPort 1.2 Alternate mode
Supports a maximum resolution of 1080P and HDCP
Thunderbolt3 compatible
USB bus powered (no external power supply)

Art.-No.	Description	Colour
EBUSBC-DVI	USB Type-C - DVI Adapter, 1080P	black



IADAP-USB31-VU31



IADAP-USB31-VGA

USB Type-C - VGA Adapter, 1080P

With the USB Type-C to SVGA / VGA adapter (DP Alternate mode) you can connect a monitor with SVGA / VGA port to the Type-C port of your PC / laptop / tablet. Supports DP1.2 Alternate mode with a maximum resolution of 1080P
Type-C Charging Port for charging of other devices (IADAP-USB31-VU31)
Thunderbolt3 compatible
USB bus powered (no external power supply)

Art.-No.	Description	Colour
IADAP-USB31-VGA	USB Type-C - VGA Adapter, 1080P	white
IADAP-USB31-VU31	USB Type-C - VGA Adapter, 1080P, with Type-C Charging Port	white

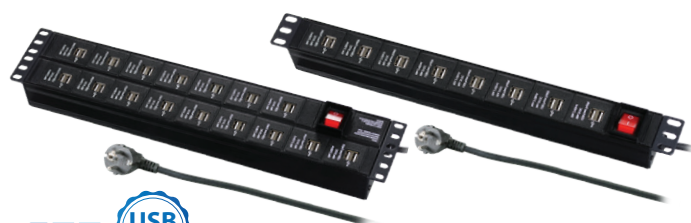
The shown converters only work in the indicated signal direction. Data transmission is not possible with reversed cabling!



USB SOCKET STRIPS



With our new 19" USB power strips, you can charge up to 32 tablets simultaneously via USB. Ideally suited for use in schools, seminar rooms or coworking spaces. For storage, we offer you the matching cabinets and tablet holders.



19" 1U/2U Socket Strip 16/32 x USB with Switch

19" 1U / 2U socket strip in aluminium profile
Outlets 16 x / 32 x USB-A e.g. for charging of mobile devices in tablet holders and cabinets
Charging voltage 5 V, charging current max. 2100 mA per 2 ports
With lighted on/off switch
Cable 3 m H03VV-F 3G 1.5 mm² with angled CEE7/7 plug
Colour black, Certifications CE, RoHS

Art.-No.	Description
EK631USB.1	19" 1U Socket Strip 16 x USB with Switch, Black
EK631USB.2	19" 2U Socket Strip 32 x USB with Switch, Black



19" 1.5U Socket Strip 18 x USB with Switch

19" 1.5U socket strip in aluminium profile
Outlets 18 x USB (9 x USB-A + 9 x USB-C) e.g. for charging of mobile devices in tablet holders and cabinets
Charging voltage 5 V, charging current max. 3200 mA per 2 ports (1 x USB-A + 1 x USB-C)
With lighted on/off switch
Cable 3 m H03VV-F 3G 1.5 mm² with angled CEE7/7 plug
Colour black, Certifications CE, RoHS

Art.-No.	Description
EK631USB.1,5	19" 1.5U Socket Strip 18 x USB with Switch, Black



19" 5U Tablet Holder, RAL7035

Module for vertical carrying of 16, 20 or 27 devices like tablets, laptops etc.
Available capacities: 16 trays of 22 mm each, 20 trays of 16.3 mm each or 27 trays of 10.5 mm each
Stainless steel brackets adjustable for different tray widths
Soft standing area and edge protection for avoiding of scratches
Rear-sided cable entries incl. edge protection for charging cables
Material steel, brackets stainless steel
Paint finish RAL7035, light grey

Art.-No.	Description	Trays	Colour
691777GR.1	19" 5U Tablet Holder, 16 Trays of 22 mm	16 x 22 mm	RAL7035
691777GR.2	19" 5U Tablet Holder, 20 Trays of 16.3 mm	20 x 16 mm	RAL7035
691777GR.3	119" 5U Tablet Holder, 27 Trays of 10.5 mm	27 x 10 mm	RAL7035



YOU CAN FIND US HERE!



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