

# 2020 Product Catalog

**USB CHARGING & CONNECTIVITY EXPERTS**

[coolgear.com](http://coolgear.com)

## Come See What We're Working On



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# Contents

---

## ■ | About Us pg. 1

---

## ■ | USB Hubs pg. 4

---

### - Mounting Styles

- DIN Rail Series ..... 5
- Rack Mount Series ..... 8
- Wall & Surface Series ..... 9
- Workstation Series ..... 11

### - Other Hub Products

- Power Delivery ..... 14
- USB Over Ethernet ..... 15

## ■ | USB Chargers pg. 16

---

### - Chargeit! Chargers

- Charge Series ..... 17
- Charge & Sync Series ..... 19

## ■ | USB Isolators pg. 22

---

## ■ | Power Over Ethernet pg. 24

---

- EzPoE! to USB ..... 25
- PoE Accessories ..... 27

## ■ | Serial pg. 28

---

### - USB to Serial

- RS-232 ..... 29
- RS-422 / 485 ..... 32
- Serial to Ethernet ..... 35
- CAN BUS ..... 36
- TTL ..... 37

## ■ | USB Cables pg. 39

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# About Us

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## USB CHARGING & CONNECTIVITY EXPERTS

### Coolgear Inc.

Coolgear is a leading manufacturer of **USB hubs, chargers, serial devices, adapters & cables**. We offer innovative USB products paired with superb customer service and technical support.

### Our Mission

Coolgear provides easy to integrate, highly reliable connectivity products to ensure quality solutions in educational, industrial, corporate, transport, medical, and other applications.

# Our Industries

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### Automotive

Our USB hubs and serial communication devices serve as a bridge between the digital brain and the analog nervous system of a car's electronics.



### Fleet

From USB hubs to adapters and chargers, fleet management technology solutions from Coolgear maximize the performance of your vehicle fleet.



### Medical

Medical technology is intended to make patient care more efficient, not get in the way. But a surprising number of healthcare professionals struggle with their technology.



### Commercial

Our USB devices offer simple, superior connectivity solutions for a variety of applications in banking, retail, industrial, field service, and more.



### Industrial

USB is useful, convenient, & ubiquitous. Reaping the benefits requires your equipment to be rugged. Our equipment is built to meet critical tasks under punishing conditions.



### Robotics

Invest in the efficiency, accuracy, speed, quality, and safety of a robotics solution. Our products are used with heavy payload robots or lighter weight collaborative solutions.

Here at Coolgear Labs, we are constantly conducting R&D for Coolgear's industrial devices. We strive to only deliver quality products as well as innovative design directly from our Lab in the USA.



● Constantly researching innovative ways to get you a faster charge for your devices. Coolgear Labs strives to stay at the forefront of USB-C and Power Delivery technologies.



● We want your installs to thrive. Whether you're putting together a kiosk, or adding ports to your vehicles Coolgear Labs strives to bring you the next level in charging and connectivity.



● Coolgear Labs has conducted extensive research on Power over Ethernet solutions, bringing you solid data connections as well as strong currents.

## We Cater to Your Needs

### Design your next ODM project using a Coolgear product.

All of our products can be purchased in a wide array of configurations. Bulk, PCBA only, and Retail versions are all available. Inquire and work with us today! Data Sheets, 3D CAD Models, and excellent support based in the USA are all available to you.

PD Sink Module



Type-C PD to PoE



75W USB PD Charger



USB 3.0 High Power Hub



## Founded & Operated in the U.S.

### Quality Assurance

Order with confidence as production, assembly, extensive testing procedures, and final quality control are maintained by our supply chain management, all while backed by our one year warranty providing you peace of mind.

### Responsive Support

Quick responsive, U.S. based, customer and technical support specialists eager to assist you over the phone, email, and live chat. Contact our knowledgeable staff for extensive help through your pre and post sale processes to find the solution to meet your needs.

### Stateside Fulfillment

Local inventory available for immediate shipment from our facility located in Clearwater, Florida. We offer shipping services ranging from economical to small parcel and freight options.

# USB Hub Mounting Styles

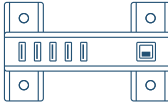
## USB connectivity products offering a wide range of install configurations.

Coolgear is an innovative manufacturer of mountable connectivity solutions designed for easy installation – especially in tight quarters where a compact solution is needed, without compromising performance. Coolgear is dedicated to delivering cost effective solutions through on-site design, extensive product insight, and broad testing capabilities.



### DIN Rail Series

Surface mounted hubs are designed to be attached to a flat surface. They allow mounting in a fixed position with a minimum of hardware, but they're harder to relocate than the alternatives.



### Rack Series

Surface mounted hubs are designed to be attached to a flat surface. They allow mounting in a fixed position with a minimum of hardware, but they're harder to relocate than the alternatives.



### Wall & Surface Series

Surface mounted hubs are designed to be attached to a flat surface. They allow mounting in a fixed position with a minimum of hardware, but they're harder to relocate than the alternatives.



### Workstation Series

Surface mounted hubs are designed to be attached to a flat surface. They allow mounting in a fixed position with a minimum of hardware, but they're harder to relocate than the alternatives.



# USB Hubs Catalog

pg. 4

## - Mounting Styles

- DIN Rail Series .....	5
- Rack Mount Series .....	8
- Wall & Surface Series .....	9
- Workstation Series .....	11

## - Other Hub Products

- Power Delivery .....	14
- USB over Ethernet .....	15

# DIN Rail Series (DRS)

## DIN Rail Mounted USB Hubs

Mount your USB Hub on a convenient din rail mounting bracket. Enjoy the benefits of easy snap on mounting for a quick and organized install.

## Common Applications:

- Industrial Control and Junction Boxes
- CNC and Heavy Machinery
- PLC, Telco control panels



### 4 Port Industrial USB 2.0 Hub w/Port Status LEDs - DRS

Model # [USBG-4U2ML](#)

- Adds 4 Downstream USB Data Ports managing up to 480Mbps
- Features LEDs displaying Downstream Port Status
- Allows for 127 device connection via cascading methods



### 4 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - DRS

Model # [USBG-4U3MLR2](#)

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Accepts 7-48V DC additional power through the 2-wire plug
- Supports 15KV ESD Surge Protection for Each Port



### 4 Port Industrial USB 3.0 Hub w/Screw Locking Ports - DRS

Model # [USBG-4U3ML](#)

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Works in Bus-Powered or Self-Powered Mode



### 7 Port Industrial USB 2.0 Hub w/Screw Locking Ports - DRS

Model # [USBG-7DU2](#)

- Adds 7 Downstream USB Data Ports managing up to 480Mbps
- Uses screw locking ports for secure cable connections
- Works in Bus-Powered or Self-Powered Mode



### 7 Port Industrial USB 2.0 Hub w/Screw Locking Ports and ESD Surge Protection - DRS

Model # [USBG-7DU2i](#)

- Adds 7 Downstream USB Data Ports managing up to 480Mbps
- Uses screw locking ports for secure cable connections
- 7 Port 350-Watt Surge Protection



### 7 Port Industrial USB 3.0 Hub w/Screw Locking Ports - DRS

Model # [USBG-7U3ML](#)

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Supports Self-powered and Bus-powered Mode
- Uses screw locking ports for secure cable connections



# DIN Rail Series (DRS)

continued



## 4 Port Industrial USB-C 3.2 Gen 2 Hub w/Screw Locking Ports and Type-C Upstream - DRS

Model # **CG-4PG2MHUB**

- Adds 4 Downstream USB Data Ports managing up to 10Gbps
- Support USB Battery Charging: SDP, CDP and DCP modes
- Uses screw locking ports for secure cable connections



## 4 Port Industrial USB-C 3.2 Gen 1 Hub w/ESD Surge Protection and Type-C Upstream - DRS

Model # **CG-4PU31C2P**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection



## 4 Port Industrial USB-C 3.2 Gen 1 Hub w/ESD Surge Protection - DRS

Model # **CG-4PU31C1B1**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Accepts +7 ~ 48V DC additional power through the 2-wire plug
- Supports 15KV ESD Surge Protection for Each Port



## 7 Port Industrial USB-C 3.2 Gen 1 Hub w/ESD Surge Protection - DRS

Model # **CG-7PU312C**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Accepts +7 ~ 48V DC additional power through the 2-wire plug
- Supports 15KV ESD Surge Protection for Each Port



## 7 Port Industrial USB-C 3.2 Gen 1 Hub w/ESD Surge Protection and Type-C Upstream - DRS

Model # **CG-7PU313C**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Compliant with USB 3.2 Gen 1 Specifications
- Supports 15KV ESD Surge Protection for Each Port



## 12 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - DRS

Model # **CG-12PU31HB**

- Adds 12 Downstream USB Data Ports managing up to 5Gbps
- Support USB Battery Charging: CDP and DCP Modes
- Supports 15KV ESD Surge Protection for Each Port



## 16 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - DRS

Model # **CG-16PU31H**

- Adds 16 Downstream USB Data Ports managing up to 5Gbps
- Support USB Battery Charging: CDP and DCP Modes
- Supports 15KV ESD Surge Protection for Each Port



## 4 Port Industrial USB 3.2 Gen 1 Hub w/High Temp. Tolerance and ESD Surge Protection - DRS

Model # **CG-G14PHHT**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port

# DIN Rail Series (DRS)

continued



## 4 Port Industrial USB-C 3.2 Gen 1 Hub w/Screw Locking Ports and ESD Surge Protection - DRS

Model # **CG-4U3CML**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



## 7 Port Industrial USB-C 3.2 Gen 1 Hub w/Screw Locking Ports and ESD Surge Protection - DRS

Model # **CG-7U3CML**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port

# DIN Rail Series Comparison Guide

Model #:	USB Type	USB Port Count	Max Speed	Input Voltage (DC)	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
USBG-4U2ML	2.0	4 (A)	480Mbps	+7 ~ 24V	0 - 55	3.72 x 2.26 x 1.03	0.450
USBG-4U3MLR2	3.2 Gen 1	4 (A)	5GBps	+7 ~ 48V	0 - 70	3.72 x 2.34 x 1.03	0.431
USBG-4U3ML	3.0	4 (A)	5GBps	+7 ~ 48V	0 - 55	5.98 x 6.50 x 0.93	0.531
USBG-7DU2	2.0	7 (A)	480Mbps	+7 ~ 24V	0 - 55	5.23 x 2.42 x 1.43	0.625
USBG-7DU2i	2.0	7 (A)	480Mbps	+7 ~ 24V	0 - 55	5.23 x 2.42 x 1.43	0.625
USBG-7U3ML	3.0	7 (A)	5GBps	+7 ~ 48V	0 - 55	5.66 x 2.60 x 1.42	0.775
CG-4PG2MHUB	3.2 Gen 2	2 (A) 2 (C)	10GBps	+7 ~ 48V	0 - 70	5.23 x 2.42 x 1.43	0.638
CG-4PU31C2P	3.2 Gen 1	3 (A) 1 (C)	5GBps	+7 ~ 48V	0 - 55	5.23 x 2.42 x 1.43	0.413
CG-4PU31C1B1	3.2 Gen 1	3 (A) 1 (C)	5GBps	+7 ~ 48V	0 - 55	4.51 x 2.23 x 1.03	0.381
CG-7PU312C	3.2 Gen 1	5 (A) 2 (C)	5GBps	+7 ~ 48V	0 - 55	5.23 x 2.42 x 1.43	0.656
CG-7PU313C	3.2 Gen 1	5 (A) 2 (C)	5GBps	+7 ~ 48V	0 - 55	5.23 x 2.42 x 1.43	0.650
CG-12PU31HB	3.2 Gen 1	12 (A)	5GBps	+7 ~ 24V	0 - 55	5.22 x 2.56 x 1.89	0.806
CG-16PU31H	3.2 Gen 1	16 (A)	5GBps	+7 ~ 24V	0 - 55	5.22 x 2.56 x 1.89	0.819
CG-G14PHHT	3.2 Gen 1	4 (A)	5GBps	+7 ~ 48V	-40 - 85	6.41 x 2.48 x 1.71	0.694
CG-4U3CML	3.2 Gen 1	4 (C)	5GBps	+7 ~ 48V	0 - 60	6.41 x 2.16 x 1.22	0.440
CG-7U3CML	3.2 Gen 1	7 (C)	5GBps	+7 ~ 48V	0 - 60	6.41 x 2.16 x 1.22	0.660

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# Rack Mount Series (RMS)

## Rack Mountable USB Hubs

Rack Mountable USB Hubs ideal for your standard EIA 19" server or network rack, allows you to install a multiport USB hub with ease and without all the clutter.

## Common Applications:

- Charging / AV Carts for standard 19" Applications
- Server Rack Cabinet.
- Network Cabinet.



## 16 Port Industrial USB 3.0 Hub w/Screw Locking Ports and ESD Surge Protection - RMS

Model # **USB3-16U1**

- Adds 16 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 16 Port 350 Watt Surge Protection



## 16 Port Industrial USB 2.0 Hub w/Screw Locking Ports and ESD Surge Protection - RMS

Model # **HUB-1600i-RM**

- Adds 16 Downstream USB Data Ports managing up to 480Mbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port

# Rack Mount Series Comparison Guide

Model #:	USB Type	USB Port Count	Max Speed	Input Voltage	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
USB3-16U1	3.0	16 (A)	5Gbps	+12 ~ 24V DC	0 - 55	12.15 x 5.12 x 1.74	2.050
HUB-1600i-RM	2.0	16 (A)	480Mbps	100 ~ 240V AC	-40 - 70	16.81 x 5.67 x 1.73	3.606

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# Wall & Surface Series (WSS)

## Surface & Wall Mount USB Hubs

Easily mounted to a flat surface with screws for a secure install. Offering peace of mind knowing that your install will not be disturbed or disconnected.

## Common Applications:

- Desktop or under-desk installs
- Control room, production facility
- Robotics, autonomous vehicles



### 4 Port Industrial USB 3.2 Gen 1 Hub w/Port Status LEDs - WSS

Model # **CG-4XUH**

- Adds 4 Downstream USB Data Ports managing up to 10Gbps
- Features LEDs displaying Downstream Port Status
- High power charging mode supported



### 4 Port Rugged USB 3.2 Gen 1 Hub w/Port Status LEDs - WSS

Model # **CG-4XUHA**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Features LEDs displaying Downstream Port Status
- High power charging mode supported



### 4 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - WSS

Model # **CG-MIC4P31H**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Supports +5V DC self-power input via 2 pin Phoenix connector
- Supports 15KV ESD Surge Protection for Each Port



### 4 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection and Variable Voltage - WSS

Model # **CG-MIC4P31HVV**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Supports +7 ~ 48V DC self-power input via 2 pin Phoenix connector
- Supports 15KV ESD Surge Protection for Each Port



### 7 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection and Port Status LEDs - WSS

Model # **CG-8PUAU31H**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Features one 25W dedicated charging port
- Supports 15KV ESD Surge Protection for Each Port



### 7 Port Industrial USB 3.2 Gen 1 Hub w/Port Status LEDs - WSS

Model # **CG-7XUH1P**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Features one High Power Charging Port
- Features LEDs displaying Downstream Port Status

# Wall & Surface Series (WSS)

continued



## 12 Port Industrial USB 2.0 Hub w/Port Status LEDs - WSS

Model # **USBG-12U2ML**

- Adds 12 Downstream USB Data Ports managing up to 480Mbps
- Features LEDs displaying Downstream Port Status
- Allows for 127 device connection via cascading methods



## 12 Port Industrial USB 3.2 Gen 1 Hub w/Port Status LEDs - WSS

Model # **USBG-12U3ML**

- Adds 12 Downstream USB Data Ports managing up to 5Gbps
- High or Full-speed Packet Protocol Sequencer for Endpoint 0/1
- Supports 15KV ESD Surge Protection for Each Port

## Wall & Surface Series Comparison Guide

Model #:	USB Type	USB Port Count	Max Speed	Input Voltage (DC)	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
CG-4XUH	3.2 Gen 1	4 (A)	5GBps	+7 ~ 28V	0 - 55	4.89 x 2.34 x 1.32	0.569
CG-4XUHA	3.2 Gen 1	4 (A)	5GBps	+7 ~ 28V	0 - 55	5.16 x 2.48 x 1.20	0.513
CG-MIC4P31H	3.2 Gen 1	4 (A)	5GBps	+5V	0 - 70	3.22 x 1.82 x 0.99	0.320
CG-MIC4P31HVV	3.2 Gen 1	4 (A)	5GBps	+7 ~ 48V	0 - 70	3.22 x 1.82 x 0.99	0.320
CG-8PUAU31H	3.2 Gen 1	7 (A)	5GBps	+7 ~ 28V	0 - 55	6.50 x 2.59 x 1.28	0.756
CG-7XUH1P	3.2 Gen 1	7 (A)	5GBps	+7 ~ 28V	0 - 55	7.13 x 2.34 x 1.33	0.794
USBG-12U2ML	2.0	12 (A)	480Mbps	+7 ~ 36V	0 - 55	6.25 x 2.60 x 2.00	0.843
USBG-12U3ML	3.2 Gen 1	12 (A)	5GBps	+7 ~ 48V	0 - 55	6.13 x 2.61 x 2.03	0.825

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# Workstation Series (WKS)

## Workstation USB Hubs

Providing you with a great hub for everyday and heavy use, you can rely on our workstation series hubs in your workplace or professional studio. **\*Power adapter included.**

## Common Applications:

- Office Workstations, Home Office, Remote Office
- Schools, Hotels, Labs, Test Systems
- Sound and Video Professionals



### 4 Port Industrial USB 2.0 Hub w/Port Status LEDs - WKS

Model # **USBG-4PUSB2-MH**

- Adds 4 Downstream USB Data Ports managing up to 480Mbps
- Features LEDs displaying Downstream Port Status
- Automatic connect function plus over-current protection



### 4 Port Industrial USB 3.2 Gen 1 Hub w/Port Status LEDs - WKS

Model # **USBG-4PMINIH**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Features LEDs displaying Downstream Port Status
- Automatic connect function plus over-current protection



### 4 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - WKS

Model # **CG-U3MINI4PH**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Support USB Battery Charging: SDP, CDP, DCP Modes
- Supports 15KV ESD Surge Protection for Each Port



### 4 Port Industrial USB 2.0 Hub w/Screw Locking Ports and Port Status LEDs - WKS

Model # **USBG-4SU2MLA**

- Adds 4 Downstream USB Data Ports managing up to 480Mbps
- Uses screw locking ports for secure cable connections
- Features LEDs displaying Downstream Port Status



### 4 Port Industrial USB 3.2 Gen 1 Hub w/Screw Locking Ports and Port Status LEDs - WKS

Model # **USBG-3X4M**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Features LEDs displaying Downstream Port Status



### 4 Port Industrial USB 3.2 Gen 1 Hub w/Screw Locking Ports, Port Status LEDs, ESD Surge Protection - WKS

Model # **USBG-3X4MR2**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



# Workstation Series (WKS)

continued



## 4 Port Industrial USB-C 3.2 Gen 2 Hub w/Screw Locking Ports and Type-C Upstream - WKS

Model # **CG-4P31CHUB**

- Adds 4 Downstream USB Data Ports managing up to 10Gbps
- Plastic housing featuring a USB Type-C upstream connection
- Uses screw locking ports for secure cable connections



## 7 Port Industrial USB 2.0 Hub w/Power Port Status LED - WKS

Model # **USBG-7U2ML**

- Adds 7 Downstream USB Data Ports managing up to 480Mbps
- Allows for 127 device connection via cascading methods
- Supports Self-powered and Bus-powered Mode



## 7 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - WKS

Model # **CG-7U3DS**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Support USB Battery Charging: CDP and DCP modes
- Supports 350 Watt Surge Protection for Each Port



## 7 Port Industrial USB 3.2 Gen 1 Hub w/Screw Locking Ports, Port Status LEDs, ESD Surge Protection - WKS

Model # **CG-7PU31HB**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



## 4 Port Industrial USB-C 3.2 Gen 1 PD Hub w/ESD Surge Protection and Type-C Upstream - WKS

Model # **CG-UC31PD4H**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



## 4 Port Industrial USB-C 3.2 Gen 1 PD Hub w/ESD Surge Protection and Type-C Upstream - WKS

Model # **CG-3X2C3AM**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



## 4 Port Industrial USB-C 3.2 Gen 2 Hub w/ESD Surge Protection and Type-C Upstream - WKS

Model # **CG-4P31CHUB-M**

- Adds 4 Downstream USB Data Ports managing up to 10Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



COMING SOON! Q4

## 7 Port Industrial USB 3.2 Gen 1 Hub w/ESD Surge Protection - WKS

Model # **CG-43AB1**

- Adds 7 Downstream USB Data Ports managing up to 5Gbps
- 4 Easy Access Ports on Front and 3 Dedicated Ports on Rear
- Supports 15KV ESD Surge Protection for Each Port

# Workstation Series Comparison Guide

Model #:	USB Type	USB Port Count	Max Speed	Input Voltage (DC)	Power Supply Incl.	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
USBG-4PUSB2-MH	2.0	4 (A)	480Mbps	+5V	✓	0 - 55	4.80 x 1.70 x 0.80	0.238
USBG-4PMINIH	3.2 Gen 1	4 (A)	5GBps	+5V	✓	0 - 55	4.80 x 1.70 x 0.80	0.238
CG-U3MINI4PH	3.2 Gen 1	4 (A)	5GBps	+5V	✓	0 - 55	3.80 x 1.85 x 1.16	0.320
USBG-4SU2MLA	2.0	4 (A)	480Mbps	+5V	✓	0 - 55	7.03 x 2.35 x 0.95	0.588
USBG-3X4M	3.2 Gen 1	4 (A)	5GBps	+7 ~ 24V	✓	0 - 55	7.03 x 2.35 x 0.95	0.650
USBG-3X4MR2	3.2 Gen 1	4 (A)	5GBps	+7 ~ 48V	✓	0 - 55	7.03 x 2.35 x 0.95	0.598
CG-4P31CHUB	3.2 Gen 2	2 (A) 2 (C)	10GBps	+7 ~ 24V	✓	0 - 70	5.99 x 2.46 x 1.18	0.340
USBG-7U2ML	2.0	7 (A)	480Mbps	+5V	✓	0 - 55	7.03 x 2.35 x 0.95	0.612
CG-7U3DS	3.2 Gen 1	7 (A)	5GBps	+12V	✓	0 - 55	7.03 x 2.35 x 0.95	0.625
CG-7PU31HB	3.2 Gen 1	7 (A)	5GBps	+7 ~ 24V	✓	0 - 55	7.14 x 2.35 x 1.05	0.638
CG-UC31PD4H	3.2 Gen 1	3 (A) 1 (C)	5GBps	+19 ~ 20V	✓	0 - 55	7.03 x 2.35 x 0.95	0.619
CG-3X2C3AM	3.2 Gen 1	3 (A) 1 (C)	5GBps	+12 ~ 24V	✓	0 - 55	7.03 x 2.35 x 0.95	0.606
CG-4P31CHUB-M	3.2 Gen 2	2 (A) 2 (C)	10GBps	+7 ~ 24V	✓	0 - 55	7.03 x 2.35 x 0.95	0.600
CG-43AB1	3.2 Gen 1	7 (A)	5GBps	+7 ~ 48V	✓	0 - 55	7.03 x 2.35 x 0.95	0.610

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.



# Power Delivery Hubs

## Type C PD Power Delivery USB Hubs

USB Power Delivery hubs provide you with enough power to keep your laptop, tablet or cell phone charged while connecting to multiple devices.

## Common Applications:

- Desktop or under-desk USB connection additions
- Convenient port access from various locations
- Stay charged and synced with your devices



### 4 Port Industrial USB-C 3.2 Gen 1 PD Hub w/ESD Surge Protection and Type-C Upstream - WKS

Model # **CG-UC31PD4H**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



### 4 Port Industrial USB-C 3.2 Gen 1 PD Hub w/ESD Surge Protection and Type-C Upstream - WKS

Model # **CG-3X2C3AM**

- Adds 4 Downstream USB Data Ports managing up to 5Gbps
- Uses screw locking ports for secure cable connections
- Supports 15KV ESD Surge Protection for Each Port



**COMING SOON! Q4**

### 3 Port Compact USB-C 3.2 Gen 1 PD 120W Shared Power Hub w/Sync & Charge

Model # **CG-UCX3PDSC**

- 1 UFP/DFP and 2 DFP Ports ( all ports support PD )
- Variable Voltage input 9~30V
- LED Charging Indicators

## Power Delivery Comparison Guide

Model #:	USB Type	USB Port Count	Max Speed	Input Voltage (DC)	Operating Temp. (°C)	Item Dimensions (L * W * H in.)	Item Weight (lbs.)
CG-UC31PD4H	3.2 Gen 1	3 (A) 1 (C)	5Gbps	+19 ~ 20V	0 - 55	7.03 × 2.35 × 0.95	0.619
CG-3X2C3AM	3.2 Gen 1	3 (A) 1 (C)	5Gbps	+12 ~ 24V	0 - 55	7.03 × 2.35 × 0.95	0.606
CG-UCX3PDSC	3.2 Gen 1	3 (C)	5Gbps	+9 ~ 30V	0 - 55	3.48 × 2.00 × 1.04	0.281

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# USB Over Ethernet Hubs

## USB Over Ethernet Hubs

USB over Ethernet (a.k.a. USB over Network or USB over IP) is a system to share USB devices over Ethernet, Wi-Fi, or Internet. Allowing easy access to devices over your network.

## Common Applications:

- Share the use of USB Devices with client PCs
- Connect Printers, Flash Drives, Sensors, and more
- Ideal for Local and Remote network installs



### 4 Port Industrial USB 2.0 Over IP Network Hub w/Port Status LEDs

Model # **USBNET-400i**

- Adds 4 Downstream USB Data Ports managing up to 480Mbps
- Allows USB Devices to be used & shared by client PCs
- Features LEDs displaying Downstream Port Status



### 4 Port Industrial USB 2.0 Over IP Network Hub w/Screw Locking Ports and Port Status LEDs

Model # **USB-NET-4A**

- Adds 4 Downstream USB Data Ports managing up to 480Mbps
- Allows USB Devices to be used & shared by client PCs
- Features LEDs displaying Downstream Port Status



### 2 Port USB 2.0 Over IP Network Hub w/Port Status LEDs

Model # **AnyplaceUSB-S2**

- Adds 2 Downstream USB Data Ports managing up to 480Mbps
- Allows USB Devices to be used & shared by client PCs
- Password authorization & traffic encryption for data security



### 4 Port USB 2.0 Over IP Network Hub w/Port Status LEDs

Model # **AnyplaceUSB-S4**

- Adds 4 Downstream USB Data Ports managing up to 480Mbps
- Allows USB Devices to be used & shared by client PCs
- Password authorization & traffic encryption for data security

# USB Over Ethernet Comparison Guide

Model #:	USB Type	USB Port Count	Max Speed	Input Voltage (DC)	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
USBNET-400i	2.0	4 (A)	480Mbps	+9 ~ 30V	0 - 55	4.97 x 3.59 x 1.15	0.675
USB-NET-4A	2.0	4 (A)	480Mbps	+7 ~ 24V	0 - 55	5.98 x 2.36 x 1.03	0.650
AnyplaceUSB-S2	2.0	2 (A)	480Mbps	+12V	0 - 55	4.01 x 3.78 x 1.15	0.938
AnyplaceUSB-S4	2.0	4 (A)	480Mbps	+12V	0 - 55	4.01 x 3.78 x 1.15	0.938

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.



# USB Chargers Catalog

pg. 16

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## - Chargeit! Chargers

- Charge Series .....	17
- Charge & Sync Series .....	19

# Chargeit! Charge Series (CS)

## Chargeit! Charge

Introducing the Chargeit! Charge Series, a smart solution for charging several iPads, iPhones iPods, and USB charging devices simultaneously. Many offering variable voltage input.

## Lightning Fast Charging for Your Devices:

- Conference Rooms Classrooms, Offices, Small Teams
- Automotive, Small Aircraft, Testing Stations
- Desktop or Under-Desk USB connection additions



### 2 Port Industrial USB Charger 1 Type-C PD 60W & 1 Type-A 18W QC 3.0 CCG2 - CS

Model # **CG-PD60QC**

- 1 USB-A Port with Quick Charge 3.0 providing up to 18W
- 1 USB-C Port with Power Delivery providing up to 60W
- Cypress PD chipset dynamically detects optimum power level



### 2 Port Industrial USB Charger 1 Type-C PD 60W PPS & 1 Type-A 18W QC 4.0 CCG3 - CS

Model # **CG-PD60PPS**

- 1 USB-A Port with Quick Charge 4.0 providing up to 18W
- 1 USB-C Port with Power Delivery providing up to 60W
- Cypress PD chipset dynamically detects optimum power level



NEW!

### 2 Port Industrial USB Charger 1 Type-C PD 88W & 1 Type-A 15W QC 3.0 w/LED Charging Indicators - CS

Model # **CG-PD88D**

- 1 USB-A Port providing up to 15W
- 1 USB-C Port with Power Delivery providing up to 88W
- ACC Option for Trigger on/off and Thermal Monitor with Shutdown



### 4 Port Industrial USB Charger 4 Type-C PD 40W QC 3.0 - CS

Model # **CG-4PUC160W**

- 4 USB-C Ports with Power Delivery providing up to 40W
- Includes 180W Power Supply required for operation.
- Temperature & Over/Under Voltage Protection



### 5 Port Industrial USB Charger 1 Type-C PD 28W & 4 Type-A 15W QC 3.0 - CS

Model # **CG-UC4AQC3**

- 4 USB-A Ports with Quick Charge 3.0 providing up to 15W
- 1 USB-C Port with Power Delivery providing up to 28W
- Temperature & Over/Under Voltage Protection



### 8 Port Industrial USB Charger 4 Type-C PD 60W & 4 Type-A 15W QC 3.0 - CS

Model # **CG-4P240WUC**

- 4 USB-A Ports with Quick Charge 3.0 providing up to 15W
- 4 USB-C Ports with Power Delivery providing up to 60W
- Temperature & Over/Under Voltage Protection

# Chargeit! Charge Series (CS)

continued



## 8 Port Industrial USB Charger 4 Type-C PD 45W & 4 Type-A 15W QC 3.0 - CS

Model # **CG-4P180WUC**

- 4 USB-A Ports with Quick Charge 3.0 providing up to 15W
- 4 USB-C Ports with Power Delivery providing up to 45W
- Temperature & Over/Under Voltage Protection



## 16 Port Industrial USB Charger 8 Type-C PD 41.4W & 8 Type-A 15W QC 3.0 - CS

Model # **CG-360WUCA8**

- 8 USB-A Ports providing up to 15W
- 8 USB-C Ports with Power Delivery providing up to 41.4W
- Temperature & Over/Under Voltage Protection



COMING SOON! Q4

## 2 Port Industrial USB Charger 2 Type-C PD 60W PPS w/LED Charging Indicators - CS

Model # **CG-2PD60W**

- 2 USB-C Ports with Power Delivery providing up to 60W
- Thermal Monitor with shutdown
- Variable voltage +9 ~ 24V

# Charge Series Comparison Guide

Model #:	USB Port Count	Power Per Port (W)	QC	PPS	BC	APL	SS FC	SS AFC	Input Volt. (DC)	Op. Temp. (°C)	Item Dimensions (L * W * H in.)	Wgt. (lbs.)
CG-PD60QC	1 (A) 1(C)	18 (A) / 60 (C)	✓	x	x	✓	x	x	+9 ~ 24V	0 - 55	3.48 × 2.00 × 1.04	0.281
CG-PD60PPS	1 (A) 1(C)	18 (A) / 60 (C)	✓	✓	x	✓	✓	✓	+9 ~ 24V	0 - 55	3.48 × 2.00 × 1.04	0.281
CG-PD88D	1 (A) 1(C)	15 (A) / 88 (C)	✓	✓	x	✓	✓	✓	+12 ~ 30V	0 - 55	3.48 × 2.00 × 1.04	0.281
CG-4PUC160W	4 (C)	40 (C)	✓	x	x	✓	✓	x	24V	0 - 55	7.78 × 2.62 × 1.56	0.968
CG-UC4AQC3	4 (A) 1(C)	15 (A) / 28 (C)	✓	x	1.2	✓	✓	✓	+7 ~ 28V	0 - 55	3.76 × 2.24 × 1.27	0.560
CG-4P240WUC	4 (A) 4(C)	15 (A) / 60 (C)	✓	x	x	✓	✓	x	24V	0 - 55	7.78 × 2.62 × 1.56	0.968
CGL-4P180WUC	4 (A) 4(C)	15 (A) / 45 (C)	✓	x	x	✓	✓	x	24V	0 - 55	7.78 × 2.62 × 1.56	0.968
CGL-360WUCA8	8 (A) 8(C)	18 (A) / 41.4 (C)	✓	x	x	✓	✓	x	24V	0 - 55	16.75 × 9.50 × 1.75	7.980
CG-2PD60W	2 (C)	60 (C)	✓	x	1.2	✓	✓	✓	+9 ~ 24V	0 - 55	3.48 × 2.00 × 1.04	0.281

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

\*\* QC - Qualcomm Quick Charge PPS - Programmable Power Supply BC - Battery Charging Spec APL - Apple Charge  
 SS FC - Samsung Fast Charge SS AFC - Samsung Adaptive Fast Charge

# Chargeit! Charge & Sync Series (CSS)

## Chargeit! Charge & Sync

Charge and sync up to 20 devices simultaneously, keeping your tablets, cell phones and/or other devices up to date and fully charged.

## Simultaneously Charge & Sync:

- Desktop or Under-Desk Mounting included
- Convenient port access from various locations
- Ideal for small offices or classrooms



### 10 Port Industrial USB 2.0 Charger Hub Type-A 2.1A w/ ESD Surge Protection - CSS

Model # [USBG-10XU1](#)

- 10 USB-A Ports providing up to 2.1A across all ports
- USB 2.0 specification supporting speeds up to 480Mbps
- Protection against ESD and Over-Current issues



### 20 Port Industrial USB 2.0 Charger Hub Type-A 1.1A w/ ESD Surge Protection - CSS

Model # [USBG-20XU1](#)

- 20 USB-A Ports providing up to 1.1A across all ports
- USB 2.0 specification supporting speeds up to 480Mbps
- Protection against ESD and Over-Current issues



### 10 Port Industrial USB 2.0 Charger Hub Type-A 2.4A w/ ESD Surge Protection - CSS

Model # [U2CHGRHUB10](#)

- 10 USB-A Ports providing up to 2.4A across all ports
- USB 2.0 specification supporting speeds up to 480Mbps
- Supports 15KV ESD Surge Protection for Each Port



### 20 Port Industrial USB 2.0 Charger Hub Type-A 2.4A w/ ESD Surge Protection - CSS

Model # [U2CHGRHUB20](#)

- 20 USB-A Ports providing up to 2.4A across all ports
- USB 2.0 specification supporting speeds up to 480Mbps
- Supports 15KV ESD Surge Protection for Each Port



### 12 Port Industrial USB 2.0 Charger Hub Type-C 15W w/ ESD Surge Protection - CSS

Model # [USB-12XU1CH](#)

- 12 USB-C Ports providing up to 5V 3A output current on each port
- Compliant with USB 2.0, USB Type-C Spec 1.2, & Battery Charging Spec 1.2.
- Supports 15KV ESD Surge Protection for Each Port

# Charge & Sync Series Comparison Guide

Model #:	USB Port Count	Power Per Port	QC	PPS	BC	APL	SS FC	SS AFC	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
USBG-10XU1	10 (A)	2.1A	x	x	1.1	✓	x	x	10.56 x 4.08 x 1.76	2.056
USBG-20XU1	20 (A)	1.1A	x	x	1.1	✓	x	x	10.56 x 4.08 x 1.76	2.056
U2CHGRHUB10	10 (A)	2.4A	x	x	1.2	✓	x	x	10.56 x 4.08 x 1.76	2.056
U2CHGRHUB20	20 (A)	2.4A	x	x	1.2	✓	x	x	10.56 x 4.08 x 1.76	2.056
USB-12XU1CH	12(C)	3A	x	x	1.2	✓	x	x	10.56 x 4.08 x 1.76	2.313

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

\*\* QC - Qualcomm Quick Charge PPS - Programmable Power Supply BC - Battery Charging Spec APL - Apple Charge  
 SS FC - Samsung Fast Charge SS AFC - Samsung Adaptive Fast Charge



# KEEP THEM CHARGED

PERFECT FOR YOUR FLEET!



SIMULTANEOUSLY CHARGE YOUR



PHONE

&



LAPTOP

OR



TABLET

## USB TYPE-C 60W PD CHARGING ADAPTER

Model # CG-PD60QC

- Secure mounting with flanges
- 12 - 24 Volt input (no inverter needed)
- 60W available to USB-C PD
- 18W available to USB Type-A
- Rugged metal chassis







# Isolators Catalog

pg. 22

# USB Isolators

## Proper USB Protection

Protect your equipment by building protective isolation barriers to the power and USB signals between a host computer and any connected USB devices.

## Common Applications:

- Protect your equipment from power and voltage surges
- Eliminate ground loop currents & protect from over-voltage
- Safeguard against EMI/RFI interferences



## USB 2.0 High Speed Isolation Adapter w/Screw Locking USB-B Port

Model # **CG-USB20ISO**

- Isolates 1 Downstream USB-A Port managing up to 480Mbps
- Supports Self-powered and Bus-powered Modes
- Features LEDs displaying Downstream Port Status



## USB 3.2 Gen 1 Gigabit Ethernet Super Speed Isolation Adapter w/Screw Locking USB-B Port

Model # **CG-31G1EA4K**

- Features 1 RJ45 Gigabit Ethernet Port up to 1000M Speed
- Adds 1 Upstream USB-B Port managing up to 5Gbps
- IEEE 802.3, 802.3u, and 802.3ab Compatible



## USB 2.0 Industrial Full / Low Speed Isolation Adapter w/3000Vrms Isolation and Screw Locking USB Port

Model # **USBG-ISO-M**

- Isolates 1 Downstream USB-A Port managing up to 12Mbps
- Supports Bus-powered Mode providing up to 420 mA to downstream devices
- Provides high-voltage 3kV isolation to protect connected equipment

# USB Isolators Comparison Guide

Model #:	USB Type	Port Count	Max Speed	Port Isolation	Operating Temp. (°C)	Item Dimensions (L * W * H in.)	Item Weight (lbs.)
CG-USB20ISO	2.0	1 (A) 1 (B)	480Mbps	2,121 Vrms	0 - 55	3.24 × 1.74 × 0.87	0.119
CG-31G1EA4K	3.2 Gen 1	1 (RJ45) 1 (B)	480Mbps	4,000 VAC Ethernet	0 - 70	2.56 × 1.67 × 0.81	0.119
USBG-ISO-M	2.0	1 (A)	12Mbps	3,000 Vrms	-40 - 70	2.87 × 2.95 × 0.98	0.388

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.



## Power Over Ethernet

pg. 24

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- EzPoE! to USB .....	25
- PoE Accessories .....	27

# EzPoE! Power Over Ethernet

## Power over Ethernet

Ideal for DIY installations and powering up low or high power USB Type C PD devices, offering passive & active PoE options depending on your install application and budget.



### USB-C PD to Passive PoE Adapter Kit w/Splitter Cable and PoE Power Adapter

Model # **CG-PWRPNESKIT**

- Extend power and data connections up to an additional 100m
- Effective Passive PoE solution for Nest Cam IQ USB-C connection
- Kit includes Power Pod, splitter, and power adapter

## Common Applications:

- Powering up low or high power USB Type C PD devices
- Nest Cam IQ indoor/outdoor, sensors, & WiFi extenders
- Great for kiosks, remote workstations, & mounted tablets



### USB-C PD to Active PoE Power Pod Adapter w/ Active PoE Injector and Short Circuit Protection

Model # **CG-POE15VPD-KIT**

- Extend power and data connections up to an additional 100m
- Effective Active PoE solution for Nest Cam IQ USB-C connection
- Kit includes Power Pod and PoE injector with power cable



### USB-C PD to Active PoE Power Pod Adapter w/ Overload and Short Circuit Protection

Model # **CG-POE15VPD**

- Extend power and data connections up to an additional 100m
- Effective Active PoE solution for Nest Cam IQ USB-C connection
- Bypass the bulky A/C adapter near your Nest Cam or other devices



COMING SOON! Q4

### USB-C PD to Active PoE Power Pod Adapter w/ Overload and Short Circuit Protection

Model # **CG-POE25PD**

- 25Watt Max power output 20 watt Continuous
- IEEE 802.3af/at, PPS and PD 3.0 Compliant
- ESD protection and Isolated for Safety



### USB-C PD to 22W PoE Power Adapter w/ IEEE802.3at Compliance

Model # **CG-PoE-CESAT**

- IEEE 802.3AT splitter offering data speeds of 1,000Mbps
- Intelligent variable power output to match device requirements
- Can operate any USB-C device that accepts power delivery



### USB-C PD to 50W PoE Power Adapter w/ IEEE802.3bt Compliance

Model # **CG-PoE-CESBT**

- IEEE 802.3BT splitter offering data speeds of 1,000Mbps
- Intelligent variable power output to match device requirements
- Kit includes Power Pod, splitter, and power adapter

# EzPoE! Comparison Guide

Model #:	Power	Max Power Output	IEEE Standard	Operating Temp. (°C)	Item Dimensions (L × W × H in.)	Item Weight (lbs.)
CG-PWRPNESKIT	Passive	22 W	Passive	10 - 60	2.10 × 1.20 × 1.00 (Pod)	0.750
CG-POE15VPD-KIT	Active	12 W	802.3at/af	0 - 78	2.10 × 1.20 × 1.00 (Pod)	1.180
CG-POE15VPD	Active	12 W	802.3at/af	0 - 78	2.10 × 1.20 × 1.00	0.038
CG-POE25PD	Active	25 W	802.3at/af	0 - 78	2.55 × 1.20 × 1.00	0.042
CG-PoE-CESAT	Active	22 W	802.3at	0 - 44	3.54 × 2.53 × 0.94	0.313
CG-PoE-CESAT	Active	50 W	802.3bt	0 - 44	3.54 × 2.53 × 0.94	0.313

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# Power Over Ethernet Accessories

## Power Over Ethernet Accessories

USB over Ethernet (also called USB over Network or USB over IP) is a system to share USB-Based devices over Ethernet, Wi-Fi, or even the Internet.



## Common Applications:

- Connect printers, flash drives, sensors, and more
- Ideal for local and remote network installs
- Test & monitor power over ethernet capabilities



## PoE Voltage Monitor w/Built in Transformer and IEEE802.af, at, bt type3 Compliance

Model # **POEPDPM2**

- Determines PoE Capability and displays power at PD connection
- Built-in Gigabit/PoE+ transformer to isolate data passes
- Detects and displays standard active and passive PoE



## PoE Voltage Monitor w/Standard & Non-Standard Voltage and IEEE802.af, at, bt type3/4 Compliance

Model # **POEPDPM4**

- Determines PoE Capability and displays power at PD connection
- Verifies the presence of proper voltage for PoE applications
- Detects and displays std and non-std active and passive PoE



## PoE 30W Gigabit Injector AC Power Adapter

Model # **CG-PoEiJ30WAV**

- Ethernet Port offering data speeds of 1,000Mbps
- Power input of AC 100-240V and 50/60 Hz working frequency
- Compatible with IEEE802.3af(15.4W) and IEEE802.3at(30w)



## PoE Splitter 24W DC Output

Model # **CG-24VPoES24w-2.5dc**

- Extend power and data connections up to an additional 100m
- Effective Active PoE solution for Nest Cam IQ USB-C
- Kit includes Power Pod and PoE Injector with Power Cable



## PoE 12V Gigabit Power Injector

Model # **CG-POEiJ12v** Variable Voltage Model # **CG-POEiJV**

- Adds 48V DC to an ethernet port to deliver power and data
- Supports 10/100/1000 Base-T Ethernet standards
- One DC-Jack and one TB-2 for 12V DC power input



## 4-Port PoE Gigabit Switch w/Uplink Port

Model # **CG-POESW4P**

- Adds 48 ~ 56V DC to an ethernet port to deliver power and data
- Remove the burden of needing a nearby power outlet
- Features 4 Ethernet PoE Ports for delivering power & data





## USB to Serial

pg. 28

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- RS-232 .....	29
- RS-422 / 485 .....	32
- Serial to Ethernet .....	35
- CAN BUS .....	36
- TTL .....	37

# USB to RS-232

## USB to Serial RS-232 Adapters

USB to RS-232 Serial adapters offered in compact portable versions, integrated cables, & rugged mountable units many with LED Indicators, DB9 & terminal wire connections.

## Common Applications:

- Modems, data storage, and peripheral devices
- Printers as well as digital signage
- Perfect for industrial applications and prototyping



### 1 Port Portable USB 2.0 RS-232 Adapter w/LED Status Indicators and Surge Protection

Model # **USBG-232MINI**

- Adds 1 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED status indicators for TxD and RxD monitoring & diagnostic
- 3ft. USB Extension cable included



### 1 Port Portable USB 2.0 RS-232 1ft. Adapter w/LED Status Indicators and Surge Protection

Model # **USBG-232** / 6ft. Model # **USBG-232MM**

- Adds 1 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED status indicators for TxD and RxD monitoring & diagnostic
- 10kV Surge Protection on serial port connection



### 2 Port Portable USB 2.0 RS-232 Adapter w/LED Status Indicators and Surge Protection

Model # **USBG-232FT-1**

- Adds 2 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED status indicators for TxD and RxD monitoring & diagnostic
- 3ft. USB Extension cable included



### 2 Port Portable USB 2.0 RS-232 Adapter w/LED Status Indicators and Surge Protection

Model # **XC-232-C**

- Adds 2 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED status indicators for TxD and RxD monitoring & diagnostic
- 10kV Surge Protection on serial port connections



### 1 Port Industrial USB 2.0 RS-232 Adapter w/Optical Isolation and Surge Protection

Model # **USBG-COM-SI-M** / Non-Isolated Model # **USBG-COM-M**

- Adds 1 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED status indicators for TxD and RxD monitoring & diagnostic
- 25kV Surge Protection and 2000V DC optical isolation

### 2 Port Industrial USB 2.0 RS-232 Adapter w/Surge Protection and Terminal Block Power Option

Model # **USBG-2COM-M**

- Adds 2 DB9 Serial Port over USB offers 921.6Kbps baud rate
- Supports 128 byte transmit FIFO & 384 byte receive FIFO
- 10kV Surge Protection on serial port connections







## 4 Port Industrial USB 2.0 RS-232 Adapter w/LED Status Indicators and Surge Protection

Model # **USB2-4COM-M**

- Adds 4 DB9 Serial Port over USB offers 921.6Kbps baud rate
- Supports 128 byte transmit FIFO & 384 byte receive FIFO
- 10kV Surge Protection on serial port connections



## 4 Port Industrial USB 2.0 RS-232 Adapter w/5V DC Power Option

Model # **USBG-BAY4**

- Adds 4 DB9 Serial Port over USB offers 921.6Kbps baud rate
- Supports 512-Byte Deep FIFOs for each Port
- DC Jack for Optional DC 5V Power Input



## 4 Port Industrial USB 2.0 RS-232 Adapter w/Surge Protection, 5V DC Power Option, & Optical Isolation

Model # **CM-41042**

- Adds 4 DB9 Serial Port over USB offers 921.6Kbps baud rate
- Supports 512-Byte Deep FIFOs for each Port
- 10kV Surge Protection and 2500Vrms optical isolation



## 8 Port Industrial USB 2.0 RS-232 Adapter w/Surge Protection and 5V DC Power Option

Model # **USB2-8COM-M**

- Adds 8 DB9 Serial Port over USB offers 921.6Kbps baud rate
- DC Jack for Optional DC 5V Power Input
- 10kV Surge Protection on serial port connections



## 8 Port Industrial USB 2.0 RS-232 Adapter w/Surge Protection, 5V DC Power Option, & Optical Isolation

Model # **CM-41082** / Non-Isolated Model # **USBG-8COM-M**

- Adds 8 DB9 Serial Port over USB offers 921.6Kbps baud rate
- DC Jack for Optional DC 5V Power Input
- 10kV Surge Protection and 2500Vrms optical isolation



## 16 Port Industrial USB 2.0 RS-232 Adapter w/12V DC Power & Terminal Block Power Option

Model # **CG-16COM-MINI**

- Adds 16 DB9 Serial Port over USB, 921.6Kbps baud rate
- DC Jack for Optional DC 5V Power Input
- Supports 2-pin Terminal Block Power Connector



## 16 Port Industrial USB 2.0 RS-232 Adapter w/LED Status Indicators and Surge Protection

Model # **USB-16COM-RM**

- Adds 16 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED status indicators for TxD and RxD monitoring & diagnostic
- 10kV Surge Protection on serial port connections



## 32 Port Industrial USB 2.0 RS-232 Adapter w/LED Status Indicators and Surge Protection

Model # **USB-32COM-RM**

- Adds 32 DB9 Serial Port over USB offers 921.6Kbps baud rate
- Full modem control signals and hardware/software flow control
- 10kV Surge Protection on serial port connections

# USB to RS-232 Comparison Guide

Model #:	Serial Port Count	Isolation	Input Voltage	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
USBG-232MINI	1	x	Bus	0 - 55	2.57 x 1.46 x 0.74	0.200
USBG-232	1	x	Bus	0 - 55	2.50 x 1.57 x 0.91	0.075
USBG-232FT-1	2	x	Bus	0 - 55	3.20 x 1.68 x 0.94	0.094
XC-232-C	2	x	Bus	0 - 55	3.30 x 2.87 x 1.62	0.181
USBG-COM-M	1	x	Bus	0 - 55	3.23 x 2.99 x 0.91	0.293
USBG-COM-SI-M	1	✓	Bus	0 - 55	3.23 x 2.99 x 0.91	0.300
USBG-2COM-M	2	x	Bus	0 - 55	2.83 x 2.24 x 0.87	0.306
USB2-4COM-M	4	x	Bus	0 - 55	6.74 x 3.94 x 1.18	1.075
USBG-BAY4	4	x	+5V DC (Bus)	0 - 55	6.83 x 3.83 x 0.96	0.613
CM-41042	4	✓	+5V DC (Bus)	0 - 55	6.83 x 3.83 x 1.70	0.914
USB2-8COM-M	8	x	+9 ~ 48V DC (Bus)	0 - 55	4.80 x 5.11 x 0.98	0.881
USBG-8COM-M	8	x	+5V DC (Bus)	0 - 55	6.83 x 3.83 x 1.70	1.193
CM-41082	8	✓	+5V DC (Bus)	0 - 55	6.83 x 3.83 x 1.70	1.237
CG-16COM-MINI	16	x	+7 ~ 24V DC	0 - 55	12.38 x 2.51 x 1.70	0.637
USB-16COM-RM	16	x	+100 ~ 240V AC	0 - 55	16.89 x 5.79 x 1.73	3.644
USB-32COM-RM	32	x	+100 ~ 240V AC	0 - 55	16.89 x 5.79 x 1.73	3.763

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# USB to RS-422 / 485

## USB to Serial RS-422 / 485 Adapters

USB to RS-422 / 485 Serial adapters in Plastic, Cable, and Metal Chassis construction with LED Status Indicators and DB9 Male Ports and Terminal Wire Connections.

## Common Applications:

- Modems, printers, data storage, and peripheral devices
- Printers as well as digital signage
- Perfect for industrial applications and prototyping



## 1 Port Industrial USB 2.0 RS-232/422/485 Adapter w/LED Status Indicators & Surge Protection

Model # **USB-COMiPLUS**

- Adds 1 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 10kV Surge Protection on serial port connection

## 1 Port Industrial USB 2.0 RS-422/485 Adapter w/LED Status Indicators & Surge Protection

Model # **USB-COMi-TB**

- Adds 1 Terminal Block over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 10kV Surge Protection on serial port connection



## 1 Port Industrial USB 2.0 RS-232/422/485 Adapter w/Optical Isolation & Surge Protection

Model # **USB-COMi-SI-M** / Non-Isolated Model # **USBG-COMi-M**

- Adds 1 Terminal Block or DB9 port over USB, 921.6Kbps
- LED indicators for TxD & RxD power and port status
- 25kV Surge Protection and 2000V DC optical isolation

## 1 Port Industrial USB 2.0 RS-232/422/485 Adapter w/LED Status Indicators and Surge Protection

Model # **USB-COMi-PRO**

- Adds 1 Terminal Block or DB9 port over USB, 921.6Kbps
- LED indicators for TxD & RxD power and port status
- 15kV Surge Protection on serial port connection



## 2 Port Industrial USB 2.0 RS-232/422/485 Adapter w/LED Status Indicators and Surge Protection

Model # **USB-2COMi-PRO**

- Adds 2 Terminal Blocks or DB9 ports over USB, 921.6Kbps
- LED indicators for TxD & RxD power and port status
- 15kV Surge Protection on serial port connection

## 2 Port Industrial USB 2.0 RS-422/485 Adapter w/Optical Isolation & Surge Protection

Model # **USBG-2COMi-SI-M** / Non-Isolated Model # **USB-2COMi-M**

- Adds 2 Terminal Blocks or DB9 ports over USB, 921.6Kbps
- LED indicators for TxD & RxD power and port status
- 25kV Surge Protection and 2000V DC optical isolation



## 4 Port Industrial USB 2.0 RS-422/485 Adapter w/Optical Isolation & Surge Protection

Model # **USB-4COMi-SI-M** / Non-Isolated Model # **USB-4COMi-M**

- Adds 4 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 25kV Surge Protection and 2000V DC optical isolation



## 4 Port Industrial USB 2.0 RS-232/422/485 Adapter w/Optical Isolation & Surge Protection

Model # **USB2-4COMi-SI-TB**

- Adds 4 Terminal Blocks over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 15kV Surge Protection and 3000V DC optical isolation



## 8 Port Industrial USB 2.0 RS-422/485 Adapter w/LED Status Indicators and Surge Protection

Model # **USB-8COMi-M**

- Adds 8 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 10kV Surge Protection on serial port connection



## 8 Port Industrial USB 2.0 RS-232/422/485 Adapter w/Switching Power Supply & Surge Protection

Model # **USB-8COMi-RM**

- Adds 8 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 10kV Surge Protection on serial port connection



## 8 Port Industrial USB 2.0 RS-232/422/485 Adapter w/Optical Isolation & Surge Protection

Model # **USB2-8COMi-SI-TB**

- Adds 8 Terminal Blocks over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 15kV Surge Protection and 3kV DC optical isolation



## 8 Port Industrial USB 2.0 RS-232/422/485 Adapter w/Isolation & Surge Protection

Model # **SA-8PX-IS**

- Adds 8 Terminal Blocks over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- Isolated and 15kV Surge Protection



## 16 Port Industrial USB 2.0 RS-232/422/485 Adapter w/Integrated Switching Power Supply & Surge Protection

Model # **USB-16COMi-RM**

- Adds 16 DB9 Serial Port over USB offers 921.6Kbps baud rate
- LED indicators for TxD & RxD power and port status
- 10kV Surge Protection on serial port connection

# USB to RS-422 / 485 Comparison Guide

Model #:	Serial Port Count	Protocol	Isolation	Input Voltage	Operating Temp. (°C)	Item Dimensions (L * W * H in.)	Item Weight (lbs.)
USB-COMiPLUS	1	RS-232 / 422 / 485	x	+5V DC (Bus)	0 - 55	2.57 × 1.46 × 0.74	0.200
USB-COMi-TB	1	RS-422 / 485	x	Bus	0 - 55	2.50 × 1.57 × 0.91	0.075
USBG-COMi-M	1	RS-232 / 422 / 485	x	Bus	0 - 55	3.20 × 1.68 × 0.94	0.094
USB-COMi-SI-M	1	RS-232 / 422 / 485	✓	Bus	0 - 55	3.30 × 2.87 × 1.62	0.181
USB-COMi-PRO	1	RS-232 / 422 / 485	x	Bus	0 - 55	3.23 × 2.99 × 0.91	0.293
USB-2COMi-PRO	2	RS-232 / 422 / 485	x	Bus	0 - 55	3.23 × 2.99 × 0.91	0.300
USB-2COMi-M	2	RS-422 / 485	x	Bus	0 - 55	2.83 × 2.24 × 0.87	0.306
USBG-2COMi-SI-M	2	RS-422 / 485	✓	Bus	0 - 55	6.74 × 3.94 × 1.18	1.075
USB-4COMi-M	4	RS-422 / 485	x	+5V DC	0 - 55	6.83 × 3.83 × 0.96	0.914
USB-4COMi-SI-M	4	RS-422 / 485	✓	+5V DC	0 - 55	6.83 × 3.83 × 1.70	0.914
USB2-4COMi-SI-TB	4	RS-232 / 422 / 485	✓	+12V DC	0 - 55	4.80 × 5.11 × 0.98	0.881
USB-8COMi-RM	8	RS-232 / 422 / 485	x	+100 ~ 240V AC	0 - 55	6.83 × 3.83 × 1.70	1.193
USB-8COMi-M	8	RS-422 / 485	x	+12V DC	0 - 55	6.83 × 3.83 × 1.70	1.237
USB2-8COMi-SI-TB	8	RS-232 / 422 / 485	✓	+12V DC	0 - 55	12.38 × 2.51 × 1.70	0.637
SA-8PX-IS	8	RS-232 / 422 / 485	✓	+7 ~ 24V DC	0 - 55	9.68 × 3.37 × 0.91	1.300
USB-16COMi-RM	16	RS-232 / 422 / 485	x	+100 ~ 240V AC Integrated	0 - 55	16.89 × 5.79 × 1.73	3.681

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# Serial to Ethernet

## Serial to Ethernet

RS232 Serial to Ethernet Data Gateway with 2 or 4 ports and connection for RJ45 ports to 10/100 Networks accessing serial devices anywhere on the LAN or Internet.

## Common Applications:

- Warehouse and production lines
- PLC's, meters, and sensors
- Remote serial access



### 2 Port Industrial Ethernet to RS-232 Adapter w/5V DC Power Option and Terminal Block Power Option

Model # **MSD-SRF2XM**

- Adds 2 DB9 ports over Ethernet, 115.2Kbps baud rate
- Optional +7 - 40V DC through 2-wire power terminal connector
- Lan Port Ethernet: 10/100 Mbps, RJ45 connector



### 4 Port Industrial Ethernet to RS-232 Adapter w/5V DC Power Option and Terminal Block Power Option

Model # **MSD-SRF4XM**

- Adds 4 DB9 ports over Ethernet, 115.2Kbps baud rate
- Optional +7 - 40V DC through 2-wire power terminal connector
- Lan Port Ethernet: 10/100 Mbps, RJ45 connector

# Serial to Ethernet Comparison Guide

Model #:	Serial Port Count	Isolation	Input Voltage	Operating Temp. (°C)	Item Dimensions (L * W * H in.)	Item Weight (lbs.)
MSD-SRF2XM	2	x	+7 - 40V	0 - 55	6.83 x 3.83 x 0.96	0.613
MSD-SRF4XM	4	x	+7 - 40V	0 - 55	6.83 x 3.83 x 0.96	0.613

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.



# CAN BUS

## CAN BUS Adapters

A Controller Area Network Bus is a robust vehicle bus standard allowing microcontrollers, sensors & other devices to communicate bi-directionally without a host.



### 1 Port Portable USB 2.0 CAN BUS 3ft. Adapter w/Port Status LEDs and ESD Surge Protection

Model # **CG-1PRTCANB**

- Adds 1 CAN bus port to your computer via a USB port
- Features LEDs displaying initialization and CAN bus status
- Supported CAN modes: Standard, Listen, Echo



### 1 Port Portable USB 2.0 CAN BUS Adapter w/Port Status LEDs and Galvanic Isolation

Model # **CG-1PMGICAN**

- Adds 1 CAN bus port to your computer via a USB port
- Features LEDs displaying initialization and CAN bus status
- Features 2500V galvanic isolation +/- 16kV ESD protection

## Common Applications:

- Automotive computers and sensors
- Aircraft fuel systems, pumps, and linear actuators
- Embedded network in medical equipment



### 1 Port Portable USB 2.0 CAN BUS Adapter w/Port Status LEDs and ESD Surge Protection

Model # **CG-1PRTMCAN**

- Adds 1 CAN bus port to your computer via a USB port
- Features LEDs displaying initialization and CAN bus status
- Supported CAN modes: Standard, Listen, Echo



### 1 Port Portable RS-232 CAN BUS Adapter w/Port Status LEDs and ESD Surge Protection

Model # **CG-1P232CAN**

- Adds 1 CAN bus port to your computer via an RS-232 port
- Features LEDs displaying Downstream Port Status
- Supported CAN modes: Standard, Listen, Echo

# CAN BUS Comparison Guide

Model #:	Serial Port Count	Isolation	Input Voltage	Operating Temp. (°C)	Item Dimensions (L x W x H in.)	Item Weight (lbs.)
CG-1PRTCANB	1	x	+5V DC (Bus)	0 - 60	3.03 x 1.61 x 0.94	0.220
CG-1PRTMCAN	1	x	+5V DC (Bus)	0 - 60	2.40 x 1.97 x 0.91	0.220
CG-1PMGICAN	1	✓	+5V DC (Bus)	0 - 60	2.40 x 1.97 x 0.91	0.220
CG-1P232CAN	1	x	+12V DC (Bus)	0 - 60	3.19 x 3.19 x 0.94	0.390

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.

# TTL

## TTL Adapters

Transistor-Transistor Logic (TTL) allows you to send and receive any data you need from your microcontroller to a computer's serial port. Configure output voltage (3.3V / 5V).

## Common Applications:

- Test equipment and instrumentation
- Consumer electronics
- Industrial controls



### 1 Port Portable USB 2.0 RS-232 TTL 5ft. Adapter w/Voltage Setting Control

Model # **USB-232TTLMOS**

- Adds 1 TTL/CMOS RS232 Serial Port over USB Port
- Supports 3-Signal TTL/CMOS RS232 Conversion: (TXD, RXD, GND)
- 5V / 3.3V / 2.5V / 1.8V Logic Level Selectable by DIP Switch



### 1 Port Portable USB 2.0 RS-232 TTL 5ft. Adapter w/Voltage Setting Control and 2500Vrms Isolation

Model # **USB-232TTLMOS-IS**

- Adds 1 TTL/CMOS RS232 Serial Port over USB Port
- Supports 2,500Vrms Isolation for TTL/CMOS Signals
- 5V/3.3V Logic Level Selectable by DIP Switch



### Portable RS232 to TTL CMOS Converter Adapter

Model # **US-232TTL33CON**

- Provides one RS232 to TTL/CMOS adaption
- Supports 4-signal RS232 Conversion: (TxD, RxD, RTS, CTS, and GND)
- Supports 5V and 3.3V Tolerance Signals

# TTL Comparison Guide

Model #:	Serial Port Count	Isolation	Input Voltage	Operating Temp. (°C)	Item Dimensions (L * W * H in.)	Item Weight (lbs.)
USB-232TTLMOS	1	x	Bus Powered	-40 - 85	2.23 × 1.65 × 0.86	0.220
USB-232TTLMOS-IS	1	✓	Bus Powered	-40 - 85	2.23 × 1.65 × 0.86	0.220

\* Data Sheets, CAD, and other compliance documentation can be found in the support tab on corresponding product pages.





# Cables

pg. 38

USB Cables

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- USB Cables .....	39
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# USB Cables



## USB-A to USB-B 2.0 Device Cable

Model # **AB5FT-B**

- Connect USB printers, scanners, & more to laptops or desktops
- Uses 28AWG/1P+24AWG/2C wiring

**Available Lengths:** [6"](#), [1'](#), [1'2"](#), [3'](#), [4'](#), [5'](#), [6'](#), [10'](#), [15'](#)



## USB-A to USB-B 3.0 Device Cable

Model # **USB3.0-ABM-0.5FT**

- Designed for Super-Speed Connections of 5Gbps data transfers
- High Quality Shielded Twisted Pair (STP) construction

**Available Lengths:** [6"](#), [1'](#), [3'](#), [6'](#)



## USB-A to USB-B 2.0 Screw Lock Cable

Model # **SC-U2MAB**

- Assures a secure connection for printers, scanners & more
- Uses 28 AWG/1P + 24 AWG/2C wiring

**Available Lengths:** [6'](#), [10'](#), [15'](#)



## USB-A to USB-B 3.0 Screw Lock Cable

Model # **ABMSL-USB3-5FT**

- Assures a secure, Super-Speed connection for Type-B devices
- Double-shielded, twisted-pair data wiring minimizes cross talk

**Available Length:** [5'](#)



COMING SOON!

## USB-A to USB-B 3.0 Right Angle Cable

Model # **CG-1801BR-12**

- Designed for Super-Speed Connections of 5Gbps data transfers
- Right Angle B Orientation, perfect for hard to reach locations

**Available Lengths:** [1'](#), [3'](#), [5'](#), [6'](#)



## USB-A to USB-B 3.0 Left Angle Cable

Model # **CG-1801B-12**

- Designed for Super-Speed Connections of 5Gbps data transfers
- Left Angle B Orientation, perfect for hard to reach locations

**Available Lengths:** [1'](#), [3'](#), [5'](#), [6'](#)



## USB-C to USB-C 3.2 Gen 1 Cable

Model # **CM-U31CMCM-18**

- Designed for Super-Speed Connections of 5Gbps data transfers
- Reversible USB Type-C connector

**Available Lengths:** [1'6"](#), [3'](#)



## USB-C to USB-C 3.2 Gen 2 Panel Mount Cable

Model # **CG-U3CMCF-PM**

- Allow your connection to deliver up to 10Gbps of data
- Flexible PVC jacket, foil & braid shielding, twisted pair cabling

**Available Lengths:** [8"](#), [1'8"](#), [3'](#)



## USB-C to USB-C Screw Lock Single Cable

Model # [CG-G2CCTSSL-05M](#)

- Assures a secure connection of 10Gbps data transfers
- Reversible USB Type-C connector

**Available Lengths:** [1'10"](#), [3'3"](#)



## USB-C to USB-C Screw Lock Dual Cable

Model # [CG-G2SL1CC-05M](#)

- Assures a secure connection of 10Gbps data transfers
- Reversible USB Type-C connector

**Available Lengths:** [1'10"](#), [3'3"](#)



## Panel Mount Extension Cable

Model # [CG-USB3PXAC-3ft](#)

- Supports 5Gbps of Data Transfers and USB Charging Protocols
- Ideal for RV, Car, Boat, Motorcycle, Aircraft, and Desk installations

**Available Length:** [3'](#)



## USB-A to USB-A 3.0 Extension Cable

Model # [USB3.0AMF-1FT](#)

- High quality connection supporting 5Gbps of Data Transfers
- Shielded Twisted Pair (STP) construction

**Available Lengths:** [1'](#), [3'](#), [6'](#)

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