

Highlighted in this issue



IP Rated Type-C®



USB Type-C[®] 20k mating cycles



Lowest profile Micro SD



USB Type-C® flag type



Over 30 years of innovation in connectivity

GCT is an established manufacturer of world-class connector and cable assembly solutions. Companies the world over trust our extensive range of solutions to enable connectivity within their designs. Our drive for product innovation has helped our customers stay at the forefront of their industries.

You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including datasheets, product specifications and 3D models to download.



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Maximise your power. Minimise your cost

With devices demanding more power and faster charging capabilities GCT's 48V, 5Amp, 240W USB Type-C rated connectors are a huge leap forward from the previous 100W maximum. USB Power Delivery (PD) allows devices to communicate with each other before transmitting and receiving power so they can take, and/or deliver, only what is needed. GCT's 240W rated socket and plug products are available in 16-pin and 24-pin formats to meet USB2.0 and USB3.2 Gen 2 specifications respectively. Horizontal and vertical options are also available in multiple shell stake options to maximise PCB retention for popular PCB thicknesses.



Key features

- 48V @ 5A for 240W Power Delivery
- Male and female PCB mount
- Horizontal and vertical mount options
- 16-Pin variants for USB2.0 applications
- 24-Pin variants for USB3.2 Gen 2 applications
- 20,000* mating cycle options

16-Pin Product Spotlight





















	USB4085	USB4105	USB4110	USB4120	USB4145	USB4500	USB4505	USB4510	USB4520	USB4800
USB Version	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Gender	Receptacle									
No. of Contacts	16	16	16	16	16	16	16	16	16	16
PCB Orientation	Horizontal	Horizontal	Horizontal	Vertical	Vertical	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
PCB Mount	Тор	Тор	Тор	Тор	Тор	Mid	Mid	Mid	Mid	Тор
Shell Stake Type	Thru-hole	Thru-hole	SMT	Thru-hole						
PCB Pin Type	Thru-hole	SMT								
Mating Cycles	20,000*	20,000*	10,000	10,000	20,000*	10,000	10,000	10,000	10,000	10,000
Power Rating	240W									

^{*20,000} cycles at a rate of 500+/-50 per hour in accordance with EIA-364-09 (plug replaced every 10K cycles)

24-Pin Product Spotlight





















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	USB4056	USB4070	USB4080	USB4081	USB4115	USB4151	USB4155	USB4160	USB4200	USB4525
USB Version	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2				
Gender	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Plug	Plug	Receptacle	Receptacle	Receptacle
No. of Contacts	24	24	24	24	24	24	24	24	24	24
PCB Orientation	Horizontal	Vertical	Horizontal	Horizontal	Vertical	Vertical	Horizontal	Vertical	Flag	Horizontal
PCB Mount	Тор	Тор	Тор	Тор	Тор	Тор	Edge	Тор	Тор	Mid
Shell Stake Type	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole
PCB Pin Type	Hybrid	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT
Mating Cycles	10,000	10,000	10,000	20,000*	10,000	10,000	10,000	20,000*	20,000*	10,000
Power Rating	240W	240W	240W	240W	240W	240W	240W	240W	240W	240W

^{*20,000} cycles at a rate of 500+/-50 per hour in accordance with EIA-364-09 (plug replaced every 10K cycles)



www.gct.co

6-Pin USB Type-C® Power Only Series

			USB4140 USB4175 USB4180 USB4515 USB4715	Power Only Power Only Power Only Power Only Power Only	Receptacle Receptacle Plug Receptacle Receptacle	Vertical Vertical Horizontal Horizontal	Top Top Mid Mid	Thru-hole Thru-hole Thru-hole Thru-hole	6.50mm 11.00mm 11.16mm 3.16mm 4.76mm	- 6.80mm 8.20mm	SMT SMT SMT SMT	1.60mm - 0.55mm	0.70mm 1.60mm 0.80mm 0.75mm 0.80mm	1.70mm 2.30mm	2.30mm	Gold Flash Gold Flash Gold Flash Gold Flash	3A 3A 3A 3A 3A	20V 20V 20V 20V 20V	M09 M09 M09 M09 M09	20,000 20,000 10,000 10,000 10,000	
Ď. s		Š	USB4135	y Power Only	e Receptacle	Horizontal	Top	SMT	3.16mm	6.90mm	SMT	ı	-		1	Gold Flash	3A	200	M09	20,000	
uiring power only for battery charginal VO connectors such as DC sockets of the USB Type-C format.	ting our website at www.gct.co. Herk for each product including drawings otprints and 3D models to download		USB4125 USB4130	Power Only Power Only	Receptacle Receptacle	Horizontal Vertical	Тор	Thru-hole Thru-hole	3.16mm 6.50mm	6.80mm -	SMT	1	1.00mm 1.20mm	1.90mm -		Gold Flash Gold Flash	3A 3A	20V 20V	M09 W09	20,000 10,000	
The GCT 6-Pin range is perfect for applications requiring power only for battery charging. The parts are ideal replacements for more traditional I/O connectors such as DC sockets and micro USB and deliver all the functional benefits of the USB Type-C format.	You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including drawings, product specifications, schematic symbols + PCB footprints and 3D models to download.	•	<u>SN</u>	USB Version Pow	Gender Rec	PCB Orientation Hor	PCB Mount Type	Shell Stake Type	Profile Height 3:	Body Length 6.8	PCB Pin Type	Mid-Mount offset	Shell Stake Length 1	Shell Stake Length 2 1.9	Shell Stake Length 3	Contact Plating Gol	Current Rating	Voltage Rating	Power Rating	Mating Cycles 20	



USB4715 — IP67 Mid-Mount Rated 6-Pin USB Type-C®

Key features

- > 100% tested for compliance to IP67 rating
- Cost-effective 6-pin design for charging applications
- SMT contact pins with 4 Through-Hole shell stakes for exceptional PCB retention

Mid-Mounted USB4715 is 100% tested to IP67 and is ideal for charging applications. Additional features include a profile of only 4.21mm above the PCB, SMT contact pins and 4 Through-Hole shell stakes to ensure exceptional PCB retention. USB4715 and gasket USBTJ-04 are available in kit form via distribution or can be ordered separately.



	Product Specifications									
Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type				
IP67 USB Type-C	3 Amps	6	10,000	Power Only	4.21mm	Mid				

Assembly







USB4515 — Low Profile Mid-Mount 6-Pin USB Type-C®

Key features

- Low profile at only 1.56mm above PCB
- Cost-effective 6-pin design
- 4 Through-Hole shell stakes

In common with all parts in GCT's extensive 6-pin series the USB4515 delivers all the mechanical benefits of USB Type-C but, by removing the unneeded materials and functions, at a fraction of the cost of a fully featured part. GCT's 6-pin USB Type-C format connectors are perfect for charging applications. This Mid-Mount version has a height of just 1.56mm above the PCB surface making it an ideal I/O connector for low profile designs.



	Product Specifications									
Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type				
USB Type-C	3 Amps	6	10,000	Power Only	1.56mm	Mid				

Mid-Mount Line-up





USB4180 — Low Mating Force Type-C®PCB Mount Plug

Key features

- 50% reduction in extraction force
- Vertical PCB mount format with 11.16 profile
- Low cost 6-Pin design for power only applications
- Sturdy thermoplastic base with 4 Through-Hole shell stakes and 2 locating pegs

If you're looking for a vertical PCB mount, power only USB Type-C male with 50% less extraction force than standard USB's then USB4180 is the answer.

Designed with docking in mind but suitable for many other applications, USB4180 has a vertical profile of 11.16mm and features a stabilising thermoplastic base, 4 Through-Hole shell stakes and 2 locating pegs to ensure easy placement and long term reliability.



	Product Specifications									
Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type				
USB Type-C	3 Amps	6	10,000	Power Only	11.16mm	Vertical				

Highlight







USB4175 — 11mm Profile 20K Cycles USB Type-C®

Key features

6-Pin Power Only vertical mount socket

Tested to 20,000 mating cycles (2x the industry standard)

Thermoplastic base with 4x shell stakes and 2x locating pegs

The combination of an 11.00mm profile, a sturdy high temperature plastic base, 4 through hole shell stakes, 2 location pegs and 20,000 mating cycles make USB4175 ideal for Power Only applications where a higher mating face and long-term reliability is needed.



Product Specifications									
Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type			
USB Type-C	3 Amps	6	20,000	Power Only	11.00mm	Vertical			

Applications



3





Power banks

Power tools Game controllers





USB4140 — Vertical-Mount 6-Pin USB Type-C®

Key features

- Multiple shell stake lengths
- 2x industry standard at 20,000 mating cycles
- Low profile at 6.50mm

GCT's next-generation vertical USB Type-C connector range now includes a 6-pin version. Designed as an I/O replacement to micro-USB and DC sockets in applications where a horizontally mounted part compromises functional design. A key feature of USB4140 is its availability in 3 different shell stake options (0.70, 1.70 & 2.30mm) to suit different PCB thicknesses whilst also providing exceptional stability & PCB retention. This series also includes 16-Pin (USB4145) & 24-Pin (USB4160) versions.



	Product Specifications									
I	Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type			
US	SB Type-C	3 Amps	6	20,000	Power Only	6.50mm	Vertical			

(available in 3 lengths - see below)

Highlight -







USB4135 — 100% Fully SMT 6-Pin USB Type-C®

Key features

- Uniquely fully surface mount
- Cost-effective 6-Pin design
- 2x industry standard at 20,000 mating cycles

Another innovative and unique product addition to GCT's power only 6-Pin USB Type-C format connectors. USB4135 is a 100% fully SMT component designed to simplify your manufacturing process. With 4 SMT shell stakes & SMT contacts, tape & reel packaging and a market leading 20,000 mating cycles (2x the industry standard) you can be sure that USB4135 will meet your needs for production usability, long term reliability and price competitiveness.



	Product Specifications									
Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type				
USB Type-C	3 Amps	6	20,000	Power Only	3.22mm	Тор				

Applications



Portable audio equipment



Wireless game controller



Wearable devices



Power Banks





USB4125 — 6-Pin Power Only USB Type-C®

Key features

- Cost-effective 6-pin design
- 2 shell stake length options (1.00mm & 1.90mm)
- 2x industry standard at 20,000 mating cycles

GCT's 6-pin USB Type-C format connectors are perfect for charging applications. Like all parts in this extensive series, the USB4125 delivers all the mechanical benefits of USB Type-C but, by removing the unneeded materials and functions, at a fraction of the cost of a fully featured part. Additionally, USB4125 is rated at double the industry standard at 20,000 mating cycles making it the ideal choice for high cycle applications.



	Product Specifications									
Interface	Current Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type				
USB Type-C	3 Amps	6	20,000	Power Only	3.16mm	Тор				

Highlight









Mating Cycles USB Type-C®

Connect. Disconnect. Repeat...

Avoid the frustration of product failure with GCT's range of high reliability USB Type-C connectors rated at 20,000* cycles which is twice the industry standard.

Available in 6, 16 & 24-Pin variants to suit power only, USB2.0 and USB3.2 Gen 2 applications respectively, the range includes horizontal and vertical options with most parts having multiple shell stake lengths to ensure reliable PCB retention.

Additionally, more USB Type-C connectors have been tested for up to 20,000 mating cycles and are rated to 240W for Power Delivery applications. Scan the QR code in the upper left corner for the most up-to-date product information.

Key features

- Tested to 20,000 mating cycles 2x the industry standard
 - 6-Pin versions for Power Only applications
- 16-Pin versions for USB2.0 applications

- 24-Pin versions for USB3.2 Gen 2 applications
- 16 & 24-Pin versions rated to 240W for Power Delivery
- Durable and reliable connectivity



6-Pin Product Spotlight









	USB4125	USB4135	USB4140	USB4175
USB Version	Power Only	Power Only	Power Only	Power Only
Gender	Receptacle	Receptacle	Receptacle	Receptacle
No. of Contacts	6	6	6	6
PCB Orientation	Horizontal	Horizontal	Vertical	Vertical
PCB Mount	Тор	Тор	Тор	Тор
Shell Stake Type	Thru-hole	SMT	Thru-hole	Thru-hole
PCB Pin Type	SMT	SMT	SMT	SMT
Power Rating	60W	60W	60W	60W
Mating Cycles	20,000*	20,000*	20,000*	20,000*

^{*20,000} cycles at a rate of 500+/-50 per hour in accordance with EIA-364-09 (plug replaced every 10K cycles)

16-Pin Product Spotlight







		•	
	USB4085	USB4105	USB4145
USB Version	2.0	2.0	2.0
USB Version	2.0	2.0	2.0
Gender	Receptacle	Receptacle	Receptacle
No. of Contacts	16	16	16
PCB Orientation	Horizontal	Horizontal	Vertical
PCB Mount	Тор	Тор	Тор
Shell Stake Type	Thru-hole	Thru-hole	Thru-hole
PCB Pin Type	Thru-hole	SMT	SMT
Power Rating	240W	240W	240W
Mating Cycles	20,000*	20,000*	20,000*

^{*20.000} cycles at a rate of 500+/-50 per hour in accordance with EIA-364-09 (plug replaced every 10K cycles)

24-Pin Product Spotlight -







	USB4081	USB4160	USB4200
USB Version	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2
USB Version			
Gender	Receptacle	Receptacle	Receptacle
No. of Contacts	24	24	24
PCB Orientation	Horizontal	Vertical	Flag
PCB Mount	Тор	Тор	Тор
Shell Stake Type	Thru-hole	Thru-hole	Thru-hole
PCB Pin Type	SMT	SMT	SMT
Power Rating	240W	240W	240W
Mating Cycles	20,000*	20,000*	20,000*

^{*20,000} cycles at a rate of 500+/-50 per hour in accordance with EIA-364-09 (plug replaced every 10K cycles



16-Pin Power and data USB Type-C® 2.0 Series

The GCT 16-Pin range is ideal for applications requiring USB2.0 specification but desiring the USB Type-C format at a cost-effective price. This series truly makes Type C a real option over other popular USB types such as micro and full size A.

You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including drawings, product specifications, schematic symbols + PCB footprints and 3D models to download.

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	USB4085	USB4105	USB4110	USB4120	USB4145	USB4500	USB4505	USB4510	USB4520	USB4800
USB Version	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Gender	Receptacle									
PCB Orientation	Horizontal	Horizontal	Horizontal	Vertical	Vertical	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
PCB Mount Type	Тор	Тор	Тор	Тор	Top	Mid	Mid	Mid	Mid	Тор
Shell Stake Type	Thru-hole	Thru-hole	SMT	Thru-hole						
Profile Height	3.46mm	3.31mm	3.26mm	6.50mm	7.46mm	3.16mm	3.16mm	3.16mm	3.16mm	5.38mm
Body Length	9.17mm	7.35mm	7.35mm	1	1	6.50mm	6.50mm	6.50mm	6.50mm	8.00mm
PCB Pin Type	Thru-hole	SMT								
Mid-Mount offset	1	•		1	1	0.80mm	1.00mm	1.60mm	2.10mm	1
Shell Stake Length 1	2.10mm	0.60mm		0.95mm	0.70mm	0.70mm	0.80mm	0.70mm	0.85mm	1.30mm
Shell Stake Length 2	1	0.95mm	-	1	1.70mm	1	1	1	1	1
Shell Stake Length 3	1	1.20mm			2.30mm	1		ı	1	,
Contact Plating	Gold Flash	Gold Flash	Gold Flash	3µ" gold						
Current Rating	5A									
Voltage Rating	487	48V								
Power Rating	240W									
Mating Cycles	20,000	20,000	10,000	10,000	20,000	10,000	10,000	10,000	10,000	10,000







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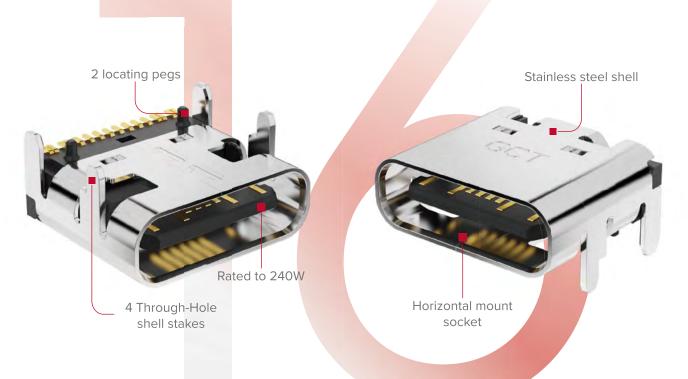


USB4105 — 240W Rated SMT 16-Pin USB Type-C®

Key features

- Rated at 240W for Power Delivery applications
- Multiple shell stake length options
- Tested to 20,000 mating cycles **2x the industry standard**

The USB4105 is a cost-effective 16-pin design that complies with USB 2.0 specifications. It is rated for power delivery of up to 240W and tested to 20,000 mating cycles, making it a reliable choice for a variety of applications. This horizontally mounted socket has 4 Through-Hole shell stakes in 3 different lengths (0.60mm, 0.95mm, 1.20mm), giving USB4105 versatility and durability.

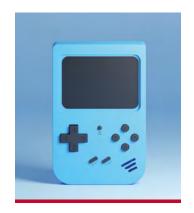


		Pro	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	16	20,000	2.0	3.31mm	Тор

Applications



Automotive & transportation



Handheld game console



Home security



Audio equipment





USB4110 — Fully Surface Mount 16-Pin USB Type-C®

Key features

- Rated at 240W for Power Delivery applications
- Fully SMT
- Cost-effective 16-Pin design

USB4110's pin structure has been modified to remove the SuperSpeed differential pair contacts. This results in a 16-pin variant of USB Type-C that provides all the required charging capabilities of Type-C, along with USB 2.0 functionality. The connector is made of a single-piece stainless steel shell and has a 3.26mm profile above the PCB. Two locating pegs are included for stability on the PCB, and four shell tabs keep it securely in place without the need for screws.



		Pro	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	16	10,000	2.0	3.26mm	Тор

Applications



Portable electronics



Virtual reality technology



Smart meters



Health & Fitness devices





USB4145 — Vertical-Mount 16-Pin USB Type-C®

Key features

- Multiple shell stake lengths
- 2x industry standard at 20,000 mating cycles

Rated at 240W for PD applications

USB4145 is a next-generation vertical USB Type-C connector with 16 contact pins ideal for applications requiring USB2.0 functionality with 90° PCB positioning. A key feature of USB4145 is its availability in 3 different shell stake options (0.70, 1.70 & 2.30mm) to suit different PCB thicknesses whilst also providing exceptional stability & PCB retention. This series also includes 6-Pin (USB4140) & 24-Pin (USB4160) versions with the 24-Pin USB 3 2 Gen 2 part sharing the same PCB layout



		Pr	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	16	20,000	2.0	7.46mm	Vertical

Highlight







USB4800 — Elevated SMT 16-Pin USB Type-C®

Key features

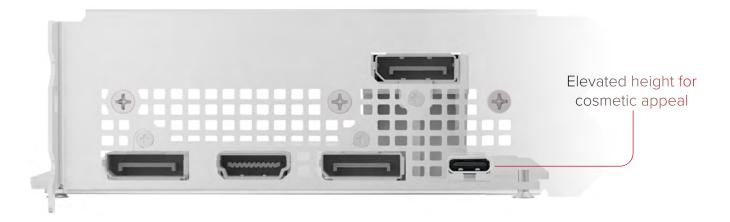
- Elevated centreline 3.50mm above PCB
- 16 SMT contact pins with 4 Through-Hole shell stakes
- Option to place parts below connector

USB4800 has 16 pins to meet USB2.0 specification for power & data and is designed with a centreline elevated 3.50mm above the PCB surface. A potential advantage of the product elevation is the ability to use components with less than a 1.60mm profile beneath the connector.



		Pro	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	16	10,000	2.0	3.50mm	Тор

Highlight





USB Type-C® 3.2 Gen 2 Series 24-Pin Power and data +

The 24-Pin variants support a number of protocols, and it can be used to connect to HDMI, VGA, DisplayPort, Thunderbolt, and other types of connections from a single USB Type-C port with the use of adapters. Selected GCT products have a single piece drawn shell which reduces unwanted EMI leakage.

You can find out more about each connector by visiting our website at www.gct.co. Here you will have access to a broad range of resources for each product including drawings, product specifications, schematic symbols + PCB footprints and 3D models to download.















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	USB4055	USB4056	USB4065	USB4070	USB4080	USB4081	USB411 <u>5</u>	USB4151	USB4155	USB4160	USB4200	USB4525
USB Version	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2	3.2 Gen 2						
Gender	Receptacle	Plug	Plug	Receptacle	Receptacle	Receptacle						
PCB Orientation	Horizontal	Horizontal	Horizontal	Vertical	Horizontal	Horizontal	Vertical	Vertical	Horizontal	Vertical	Flag	Horizontal
PCB Mount Type	Тор	Top	Тор	Тор	Тор	Тор	Тор	Тор	Edge	Top	Тор	Mid
Shell Stake Type	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole						
Profile Height	3.46mm	3.31mm	3.46mm	10.50mm	3.16mm	3.26mm	9.25mm	11.10mm	2.90mm	7.46mm	9.83mm	3.16mm
Body Length	10.00mm	9.87mm	8.65mm	ı	7.90mm	7.05mm	ı	ı	15.50mm	5.90mm	14.30mm	7.90mm
PCB Pin Type	Hybrid	Hybrid	Hybrid	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT
Mid-Mount offset	ı	1	1	1	1	1	ı	1	1.30mm	1	ı	0.80mm
Shell Stake Length 1	1.20mm	1.15mm	1.20mm	1.30mm	0.50mm	1.60mm	1.15mm	1.25mm	0.90mm	0.70mm	1.70mm	0.80mm
Shell Stake Length 2	ı	1.40mm		-	ı	ı		ı	1	1.70mm	ı	
Shell Stake Length 3	1								ı	2.30mm	ı	
Contact Plating	30µ" gold	3µ" gold	30µ" gold	30µ" gold	3µ" gold	3µ" gold	3µ" gold	Gold Flash	3µ" gold	3µ" gold	3µ" gold	3µ" gold
Current Rating	5A	5A	5A	5A	5A	5A						
Voltage Rating	200	48V	20V	487	487	487	487	487	487	48V	487	487







10,000 240W

20,000

20,000 240W

10,000 240W

10,000 240W

20,000 240W

240W 10,000

240W 10,000

240W 10,000

10,000 100W

10,000 240W

10,000

Mating Cycles Power Rating

100W

240W



USB4200 - Flag Type USB Type-C® With 240W Rating

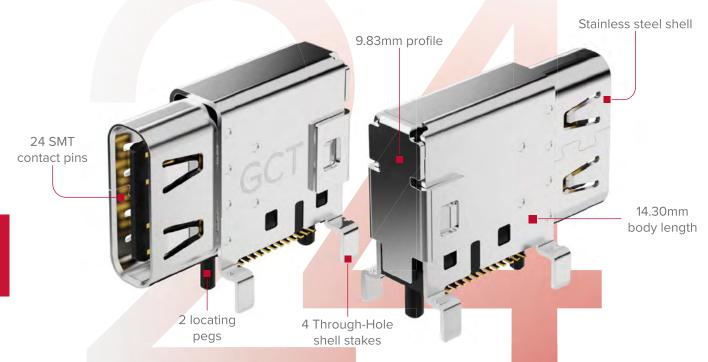
Key features

- Rated at 240W for Power Delivery

Non-obscured SMT contacts for easy inspection

mating cycles and USB3.2 Gen2 suitability makes USB4200 a standout Flag Mount USB Type-C for any application. Designed 24-Pin for USB 3.2 Gen 2 applications for long term reliability in applications where a flag-oriented interface is required, the USB4200 has a profile of 9.83mm and Tested to 20,000 mating cycles (2x industry standard) features non-obscured SMT contact pins for easy inspection.

Power Delivery (PD) compatible up to 240W (48V @ 5A), 20,000



		Pr	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	24	20,000	3.2 Gen 2	9.83mm	Тор

Highlight







USB4160 — Vertical-Mount 24-Pin USB Type-C®

Key features



2x industry standard at 20,000 mating cycles

Low profile at less than 7.50mm

Completing the GCT next-generation vertical USB Type-C connector range is the 24-Pin USB4160 which is USB3.2 Gen 2 compliant and has 90° PCB positioning. A key feature of USB4160 is its availability in 3 different shell stake options (0.70, 1.70 & 2.30mm) to suit different PCB thicknesses whilst also providing exceptional stability & PCB retention. This series also includes 6-Pin (USB4140) & 16-Pin (USB4145) versions with the 16-Pin USB2.0 part sharing the same PCB layout.



Product Specifications

Interface Power Rating No. of Contacts Mating Cycles USB Specification Profile Above PCB PCB Mount Type

USB Type-C 240W (48V @ 5A) 24 20,000 3.2 Gen 2 7.46mm Vertical

Highlight







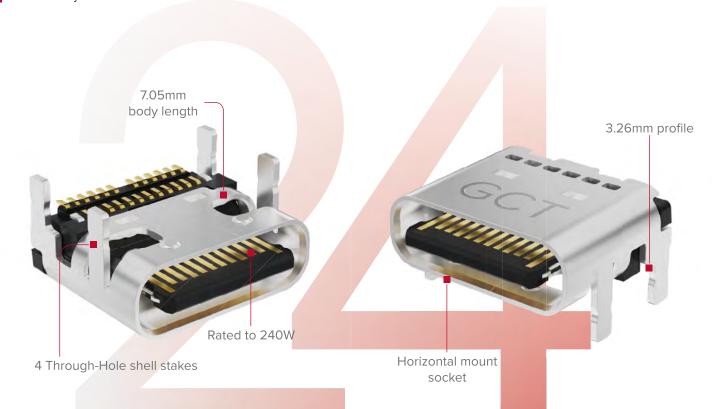
USB4081 — 240W Rated 24-Pin USB Type-C®

Key features

- Power rated to 240W (48V @ 5A)
- > SMT contact termination

Short body – 7.05mm

USB4081 is a next generation Type-C® connector rated at 240W for Power Delivery applications. With a reduced body length of only 7.05mm this component is horizontally mounted with SMT contact termination and 4 Through-Hole shell stakes for exceptional PCB retention.



		Pro	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	24	20,000	3.2 Gen 2	3.26mm	SMT

Highlight







USB4080 — Value Engineered SMT 24-Pin USB Type-C®

Key features



Full 5A & 10Gbit/s data transfer

> Horizontal receptacle

USB4080 is part of a series that has been designed for fully automated manufacturing. As a result, GCT can deliver low-cost USB3.2 Gen 2 specified USB Type-C products without compromising on quality. USB4080 is a 24-Pin horizontal connector with SMT contact termination. 2 PCB locating pegs ensure perfect positioning while 4 Through-Hole shell stakes facilitate exceptional PCB retention.



		Pr	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	24	10,000	3.2 Gen 2	3.16mm	Тор

Applications

→ gct.co/connector/usb4080



Digital and smart TV



Gaming stations



socket

Virtual reality technology



Action cameras



USB4056 — Value Engineered Hybrid-Mount USB Type-C®

Key features

- 24-Pin Hybrid-Mount PCB contacts
- Full 5 Amps and 10Gbit/s data transfer

2 Shell stake options (1.15mm & 1.40mm)

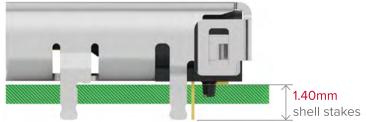
USB4056 is part of a series that has been designed for fully automated manufacturing. As a result, GCT can deliver low-cost USB3.2 Gen 2 specified USB Type-C products without compromising on quality. USB4056 is a 24-Pin horizontal connector with hybrid contact termination. 2 PCB locating posts ensure perfect positioning while 4 Through-Hole shell stakes facilitate exceptional PCB retention.



		Pr	oduct Specification	ons		
Interface	Power Rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	240W (48V @ 5A)	24	10,000	3.2 Gen 2	3.31mm	Тор

Highlight







SIM Connector Selection Guide

With a comprehensive range of SIM connectors for every application, GCT has the right connector for your designs.

including card detection, low profiles and shock/vibration resistance, so what do you choose? represented with a variety of card insertion mechanisms, in addition to great features, It can be somewhat overwhelming to identify and link SIM connectors with market industries, especially with many options to choose from. All major SIM sizes are

GCT's product selector guide allows you to reference specifications and features across the SIM connector range with ease. Combined with a list of market industries identified where customers have successfully integrated GCT SIM connectors into their designs, the SIM selector guide aims to simplify your selection.





SIM8066

SIM8060

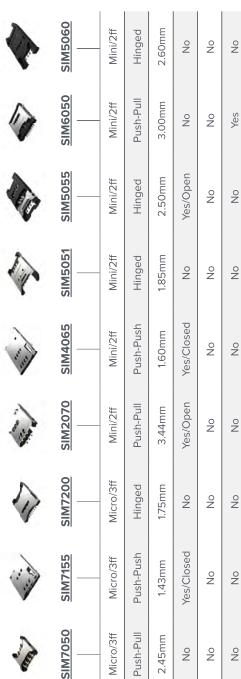
SIM8055

SIM8051









2.45mm Ŷ $\frac{9}{2}$

1.44mm

1.43mm

Yes/Closed

Yes/Open

Yes/Open

Card Detection Switch

Yes

Yes ž

With Locating Peg

Dual SIM

Yes

Push-Push

Hinged Nano/4ff

Push-Pull

Push-Pull Nano/4ff

Card Insertion Type

Profile

SIM Card Size

Nano/4ff

Nano/4ff







5000 Cycles

3000 Cycles

5000 Cycles

5000 Cycles

5000 Cycles

5000 Cycles

5000 Cycles

Reel Quantity Durability

No. of Contacts

700

700



SIM8066 — Push-Push Super Slim Nano SIM Socket

Key features

- Profile of only 1.44mm
- > Card detection switch
- <190mm² footprint</p>

SIM8066 is a 4th generation or 4FF (Form Factor) Push-Push connector for Nano SIM cards. With a compact design of <190mm² and a profile of only 1.44mm the SIM8066 is perfect for applications with space restrictions. Additional features include a normally closed card detect switch, polarised card insertion protection, an SUS304 stainless steel shell for maximum durability and 2 location pegs to aid placement.





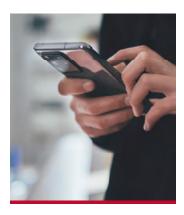
Push-Push	6 gold-plated
card eject mechanism	sprung contacts

		Pr	oduct Specificatio	ons		
SIM Card Type	Card Insertion	Mating Cycles	Operating Temp	Card Detection	Real Estate	Profile
Nano SIM	Push-Push	5,000	-40°C to +85°C	Yes	189.81mm²	1.44mm

Applications



Logistics tracking



Mobile applications



Smart metering



Satellite navigation





SIM8060 — Hinged Nano SIM Socket

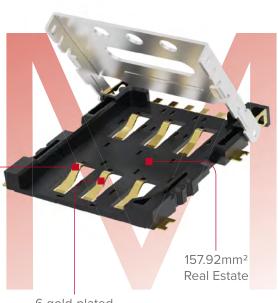
Key features

- Cost effective
- Less than 160mm² footprint
- Optional card detect switch

SIM8060 is a 4^{th} generation or 4FF (Form Factor) Hinged connector for Nano SIM cards. With locking cover, the SIM8060 offers a secure and stable connection whilst maximising the available space on PCB. SIM8060 is available with and without a normally open card detect switch.



Optional card detect switch



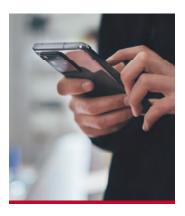
6 gold-plated sprung contacts

		Pr	oduct Specificatio	ons		
SIM Card Type	Card Insertion	Mating Cycles	Operating Temp	Card Detection	Real Estate	Profile
Nano SIM	Hinged	5,000	-20°C to +85°C	Yes	157.92mm ²	1.43mm

Applications



Logistics tracking



Mobile applications



Smart water meter

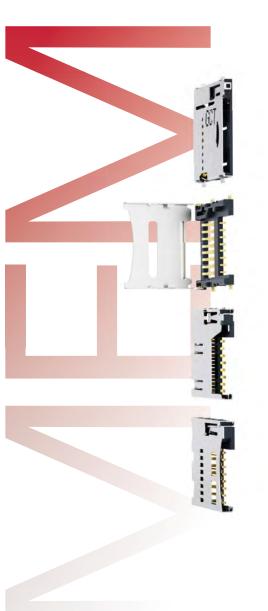


Satellite navigation



insertion and extraction. Additionally, the Push-Push style features a card detection switch, which is and Hinged style. The Push-Push style offers a built-in spring system, braking tabs and rib-wall in the inner housing, allowing the card to be inserted and extracted in a controlled, smooth and reliable manner. This eliminates the risk of the card falling out, sticking or becoming damaged on GCT offers three types of connectors that are suitable for Micro SD cards: Push-Push, Push-Pull an electrical detection to ensure the card is correctly inserted or extracted.

For environments that require extra security, GCT provides the hinged style connector. This connector locks down the card, minimising movement and ensuring a secure contact. In high vibration settings, the hinged style connector is the ideal choice for protecting your data.













	MEM2052	MEM2061	MEM2067	MEM2075	MEM2080	MEM2085
Card Type	Micro SD	 Micro SD	 Micro SD	 Micro SD	Micro SD	Micro SD
Card Insertion Type	Push-Push	Push-Push	Hinged	Push-Push	Push-Push	Push-Pull
Profile	1.95mm	1.88mm	1.80mm	1.40mm	1.28mm	1.15mm
Card Detection Switch	Yes/Open	Yes/Closed	°N	Yes/Open	Yes/Open	Yes/Open
With Locating Peg	No	No	No	Yes	NO N	oN N

8 (+1 for Switch) 5000 Cycles

8 (+2 for Switch) 5000 Cycles

8 (+1 for Switch) 5000 Cycles 1000

> 5000 Cycles 1000

> 5000 Cycles 1000

> 10000 Cycles 1000

> > Reel Quantity

Durability

Card Detection Swi With Locating Peg No. of Contacts

00







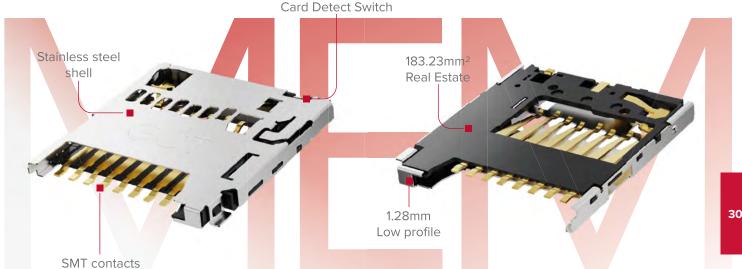


MEM2080 — Lowest Profile Push-Push MicroSD Socket

Key features

- Super low profile at 1.28mm
- Real estate of less than 184mm²
- Push-Push ejector mechanism

MEM2080 is ideal for applications where space is at a premium. Additional features include a card detection switch in a normally open configuration, an operating temperature range of -25°C and +85°C and testing to 5,000 mating cycles.



		Pr	oduct Specificatio	ons		
Low Profile	Card Insertion	Mating Cycles	Operating Temp	Real Estate	PCB Mount Type	Shell & Latch
1.28mm	Push-Push	5,000	-25°C to +85°C	183.23mm²	Тор	Stainless steel

Applications

→ gct.co/connector/mem2080





Digital Cameras

Aerial Drones Security Camera





MEM2085 - Lowest Profile Push-Pull MicroSD Connector

Key features

- Super low profile at 1.15mm
- Push-Pull ejector mechanism
- Real estate of less than 93mm²

MEM2085 is the slimmest MicroSD memory card Push-Pull connector on the market, making it ideal for applications where space is at a premium. Additional features include a card detection switch in a normally open configuration, an operating temperature range of -25°C to +85°C and testing to 5,000 mating cycles.

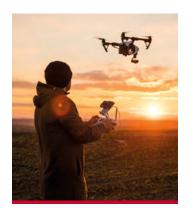


		Pr	oduct Specificatio	ons		
Low Profile	Card Insertion	Mating Cycles	Operating Temp	Real Estate	PCB Mount Type	Shell & Latch
1.15mm	Push-Pull	5,000	-25°C to +85°C	92.85mm²	Тор	Stainless steel

Applications

→ gct.co/connector/mem2085







Logistics tracking

Digital Cameras

Aerial Drones

Security Camera



FFC/FPC Connector Selection Guide

GCT offer a range of Flat Flexible Cable (FFC) and Flat Printed Circuit (FPC) connectors in 0.30, 0.50 & 1.00mm pitches, horizontal and vertical orientation and numerous locking styles. All are Zero Insertion Force (ZIF) designs. Connectors accept FFC which GCT can also supply in 0.50 and 1.00mm pitches.

A wide range of special cable options are available, such as shielded, high temperature and folding/bending.









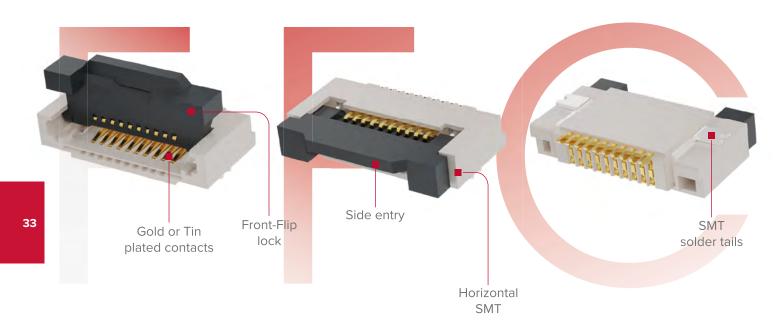


FFC2B35 — Front-Flip 0.50mm Pitch FFC Connector

Key features

- Cost-saving solution
- 0.50mm pitch with bottom side contacts
- Horizontal SMT product with Gold or Tin-plated terminals

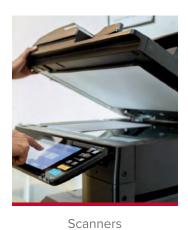
GCT's fully automated manufacturing capability allows our ZIF FFC connector range to be ultra-competitively priced without compromising on quality. The 0.50mm pitch, Horizontal-Mount FFC2B35 series is no exception. These 2.00mm profile front-flip actuator parts have a bottom contact position and are available in gold or tin plating. The fully SMT series includes pin counts 4 through 60. GCT also manufactures Flat Flex Cable to perfectly match our connector products.



		Pr	oduct Specification	ons		
Pitch	Actuator Type	No. of Contacts	Profile	Contact Plating	Contact Type	PCB Mount Type
0.50mm	Front-Flip Lock	4 - 60	2.00mm	Gold(std) or Tin	Bottom contact	Horizontal

Applications

→ gct.co/connector/ffc2b35





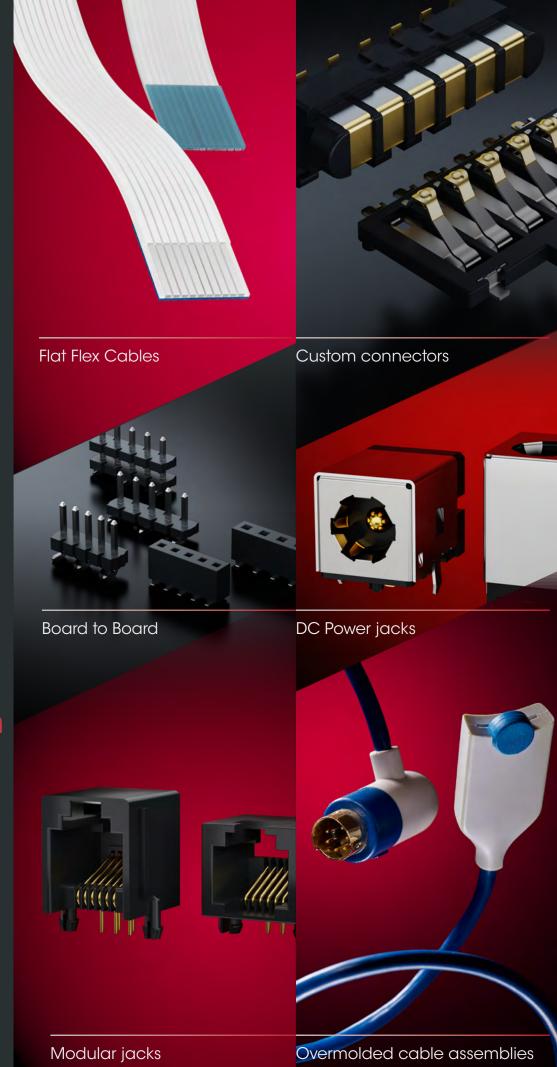


Robotics

Gaming stations

Virtual reality technology





Additional products from GCT

GCT also offer a broad selection of products to support your design needs. These products include Board to Board, Flat Flex Cables, DC power jacks, modular jacks, and overmolded cable assemblies. In addition, our in-house engineering team have the knowledge and expertise to offer custom connectors to perfectly fit your applications. Find more at www.gct.co

better connected

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