

Highlight product

IP67 rated USB Type-C[®]

For power only applications



New products 2022 issue 1

Also featured in this issue



USB



SIM



MEM



FFC

GCT

better connected

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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 datasheet, product specifications and 3D models to download.

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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.



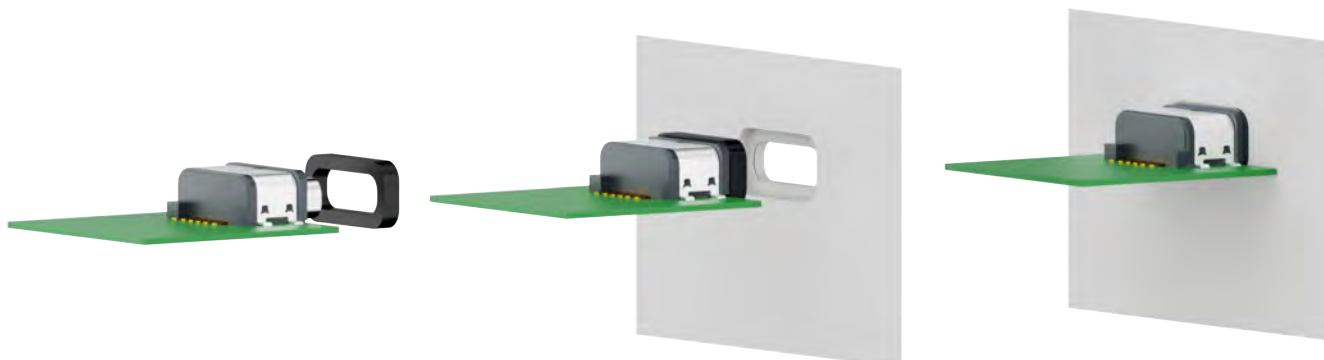
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Product Specifications

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-Mount

Assembly

gct.co/connector/usb4715

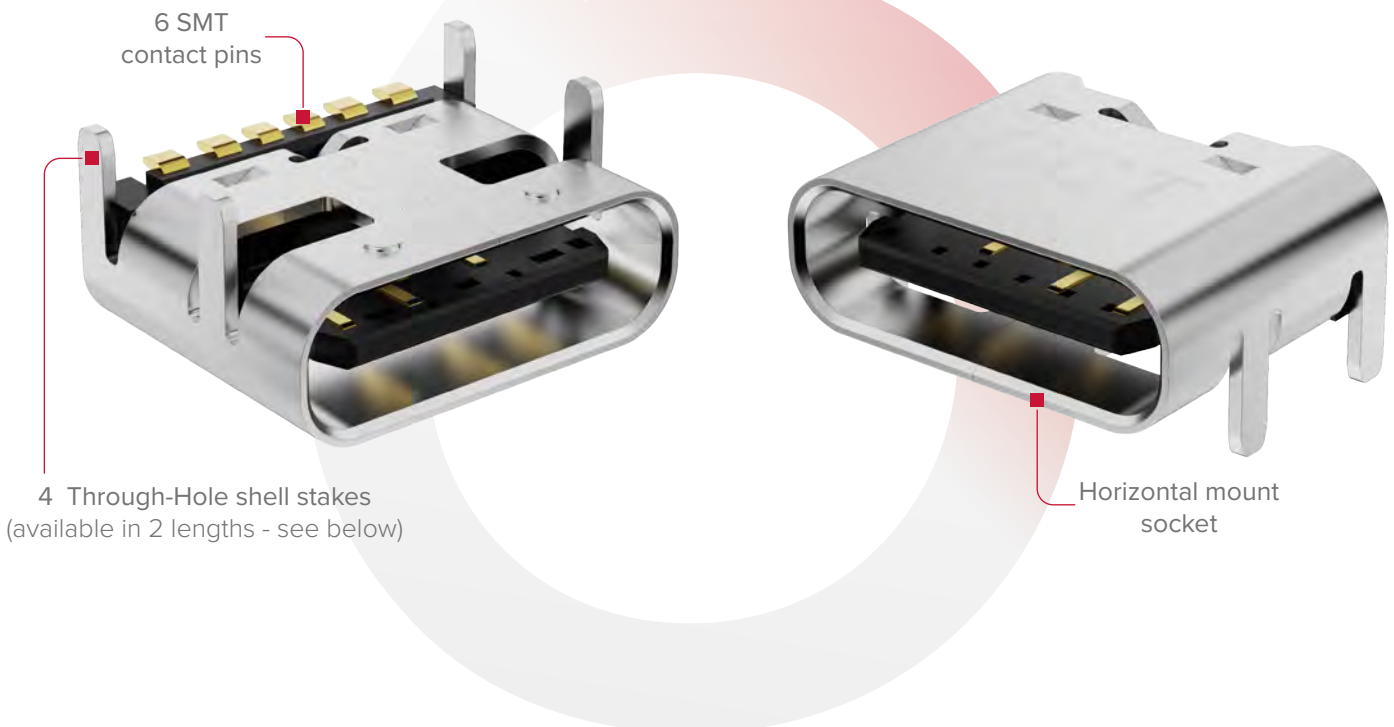


6-Pin Power Only USB Type-C[®]

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.

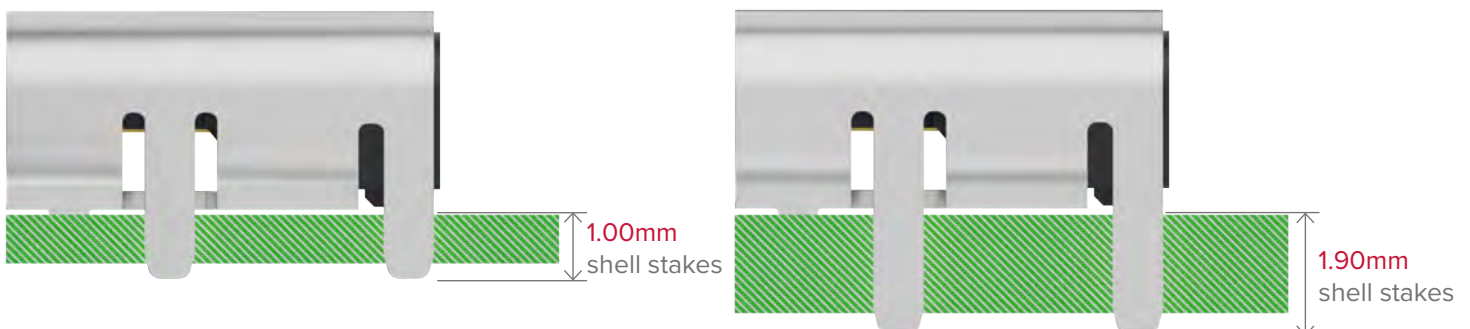


Product Specifications

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	Top-Mount

Highlight

gct.co/connector/usb4125

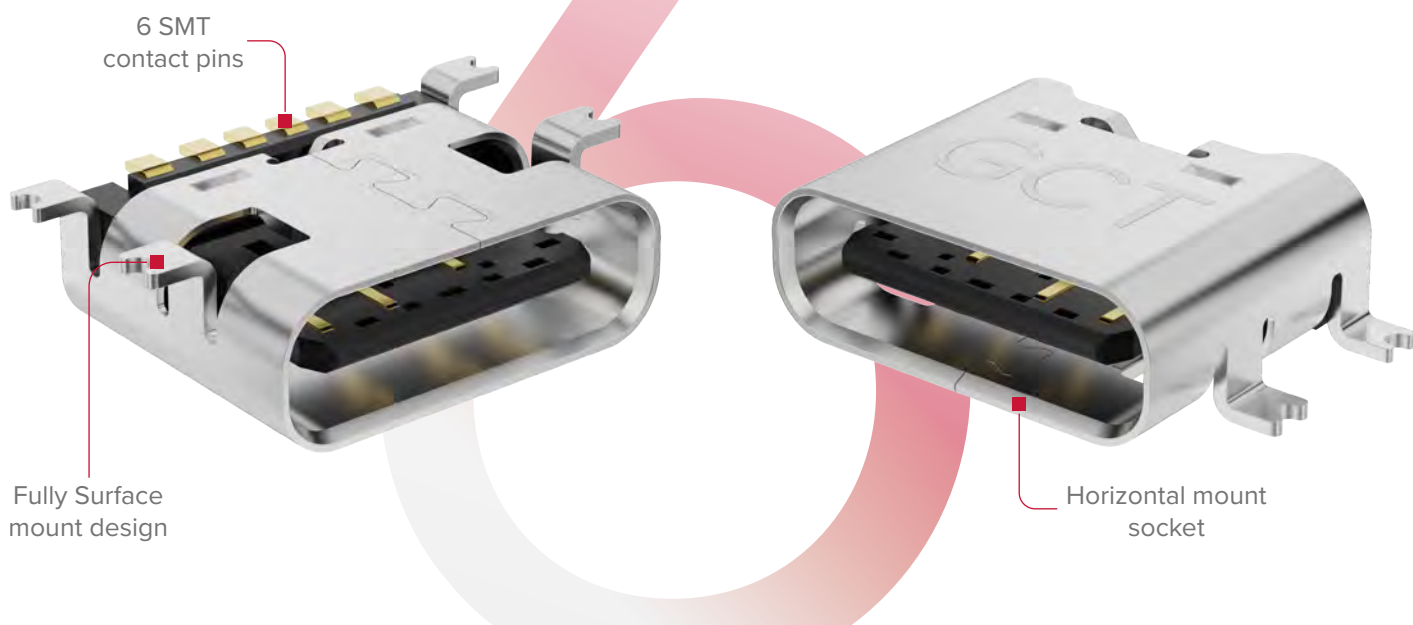


100% Fully SMT 6-Pin USB Type-C®

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	Top-Mount

Applications

gct.co/connector/usb4135



Portable audio equipment



Wireless game controller



Wearable devices



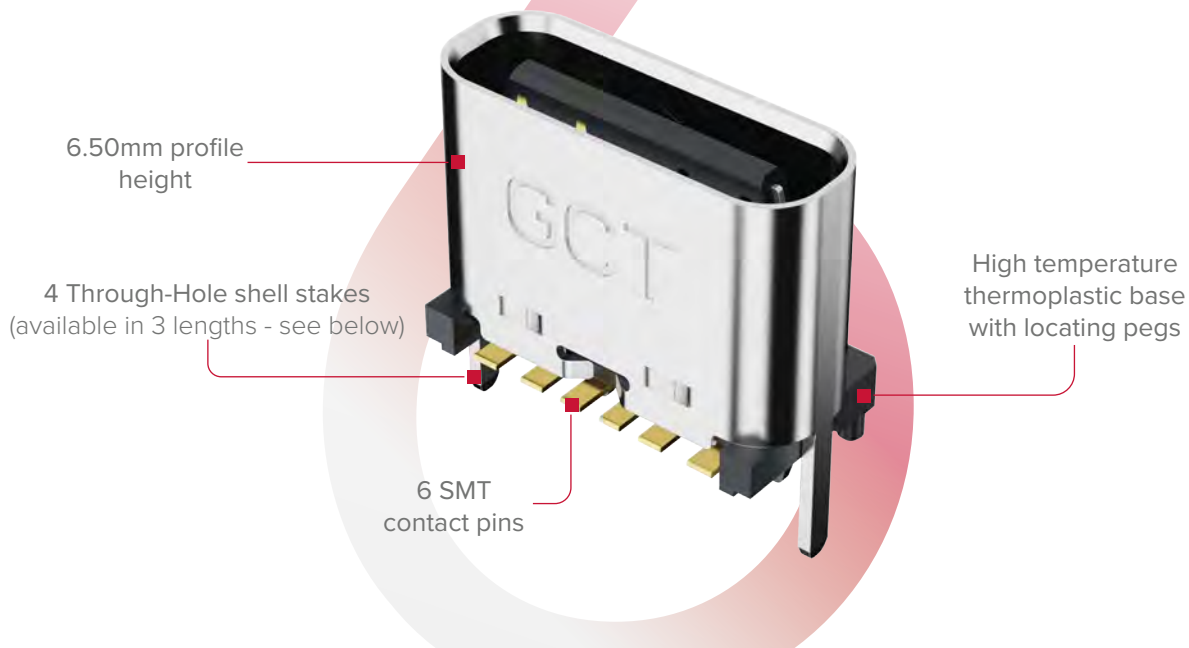
Power Banks

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 IO 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.



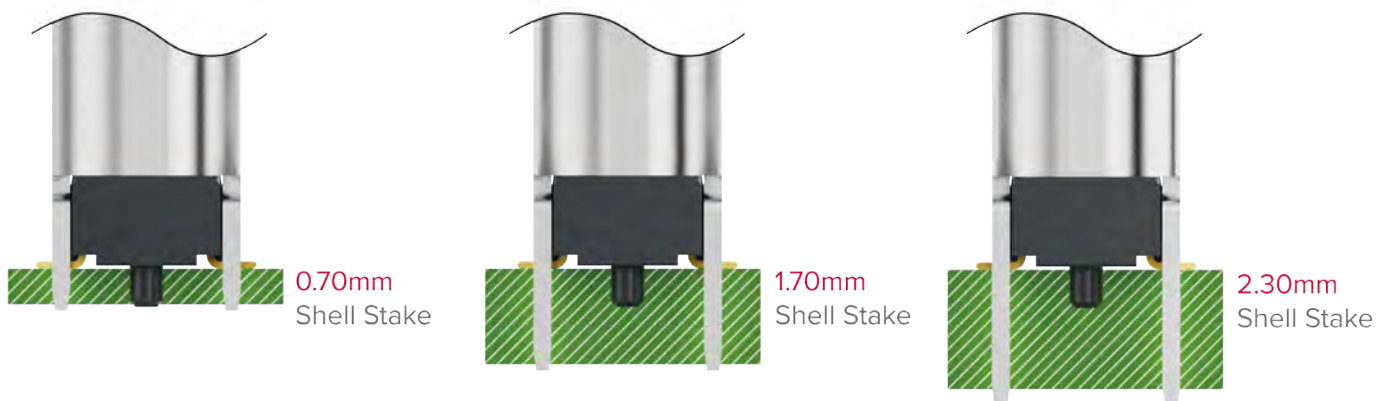
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Product Specifications

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	6.50mm	Vertical-Mount

Highlight

gct.co/connector/usb4140



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 IO connector for low profile designs.

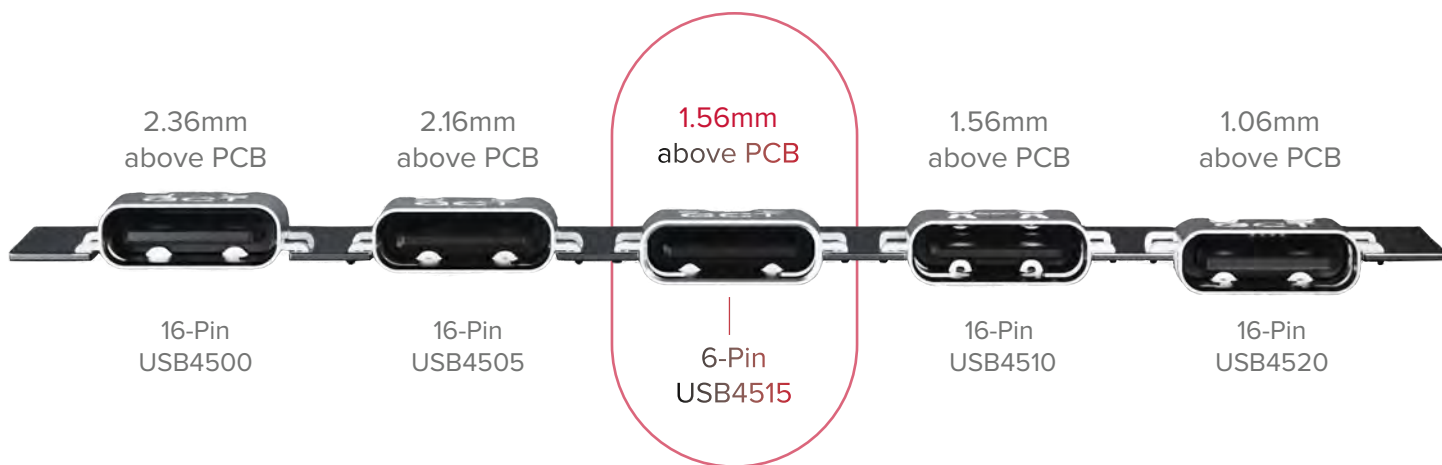


Product Specifications

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-Mount

Mid-Mount Line-up

gct.co/connector/usb4515



6-Pin USB Type-C® Power Only Series

Our Type-C connectors are the next-generation solution for current and future USB applications. With industry standard design they're small enough for portable devices and small household appliances while also being durable enough for industrial applications. All GCT's Type C products have a reversible interface that can receive a mating half from any direction, making mating simple and reliable.

The GCT 6-Pin range is ideal 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 datasheet, product specifications and 3D models to download.



USB4125



USB4130



USB4135



USB4140



USB4515



USB4715

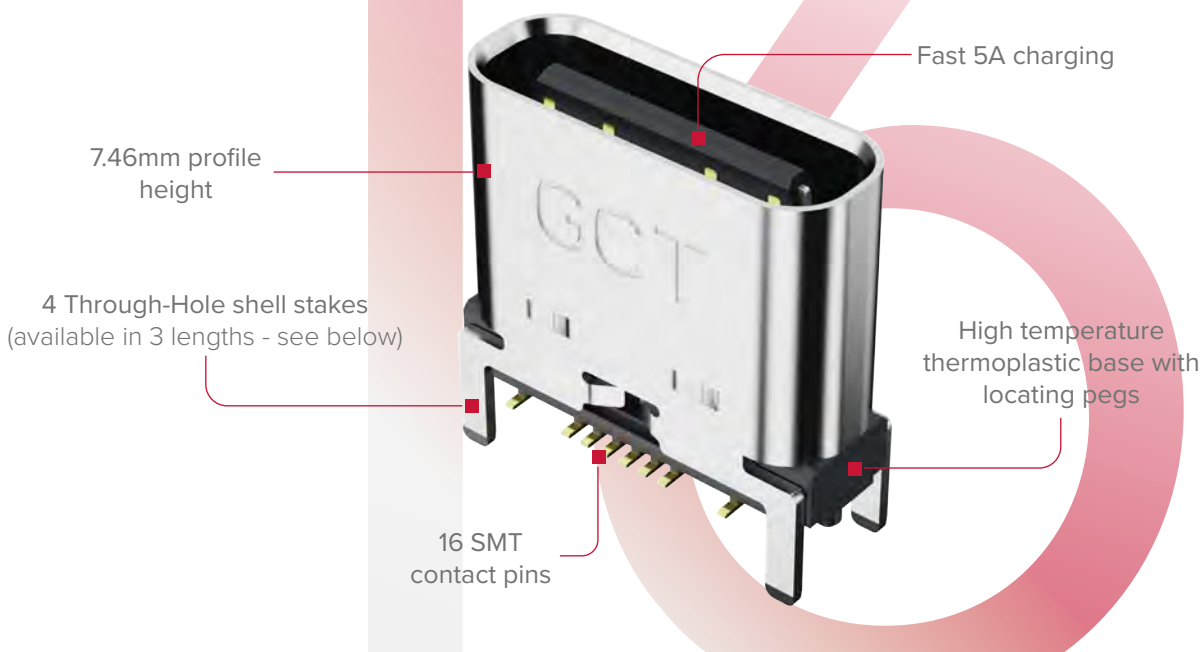
USB Version	Power Only	Power Only	Power Only	Power Only	Power Only	Power Only	Power Only
Gender	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle
Number of contacts	6	6	6	6	6	6	6
PCB Orientation	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Horizontal	Horizontal
PCB Mount Type	Top	Top	Top	Top	Mid	Mid	Mid
Shell Stake Type	Thru-hole	Thru-hole	SMT	Thru-hole	Thru-hole	Thru-hole	Thru-Hole
Profile Height	3.16mm	6.50mm	3.16mm	6.50mm	3.16mm	4.76mm	4.76mm
Body Length	6.80mm	6.50mm	6.90mm	6.50mm	6.80mm	8.20mm	8.20mm
PCB Pin Type	SMT	SMT	SMT	SMT	SMT	SMT	SMT
Mid-Mount offset	-	-	-	-	1.60mm	0.55mm	0.55mm
Shell Stake Length 1	1.00mm	1.20mm	-	0.70mm	0.75mm	0.80mm	0.80mm
Shell Stake Length 2	1.90mm	-	-	1.70mm	-	-	-
Shell Stake Length 3	-	-	-	2.30mm	-	-	-
Contact Plating	Gold Flash	Gold Flash	Gold Flash	Gold Flash	Gold Flash	Gold Flash	Gold Flash
Current Rating	3A	3A	3A	3A	3A	3A	3A
Mating Cycles	20000	10000	20000	10000	10000	10000	10000
IP Rating	-	-	-	-	-	-	IP67

Vertical-Mount 16-Pin USB Type-C®

Key features

- > Multiple shell stake lengths
- > 2x industry standard at 20,000 mating cycles
- > Low profile at less than 7.5mm

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.



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Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	16	20,000	2.0	7.46mm	Vertical-Mount

Highlight

gct.co/connector/usb4145



0.70mm Shell Stake



1.70mm Shell Stake



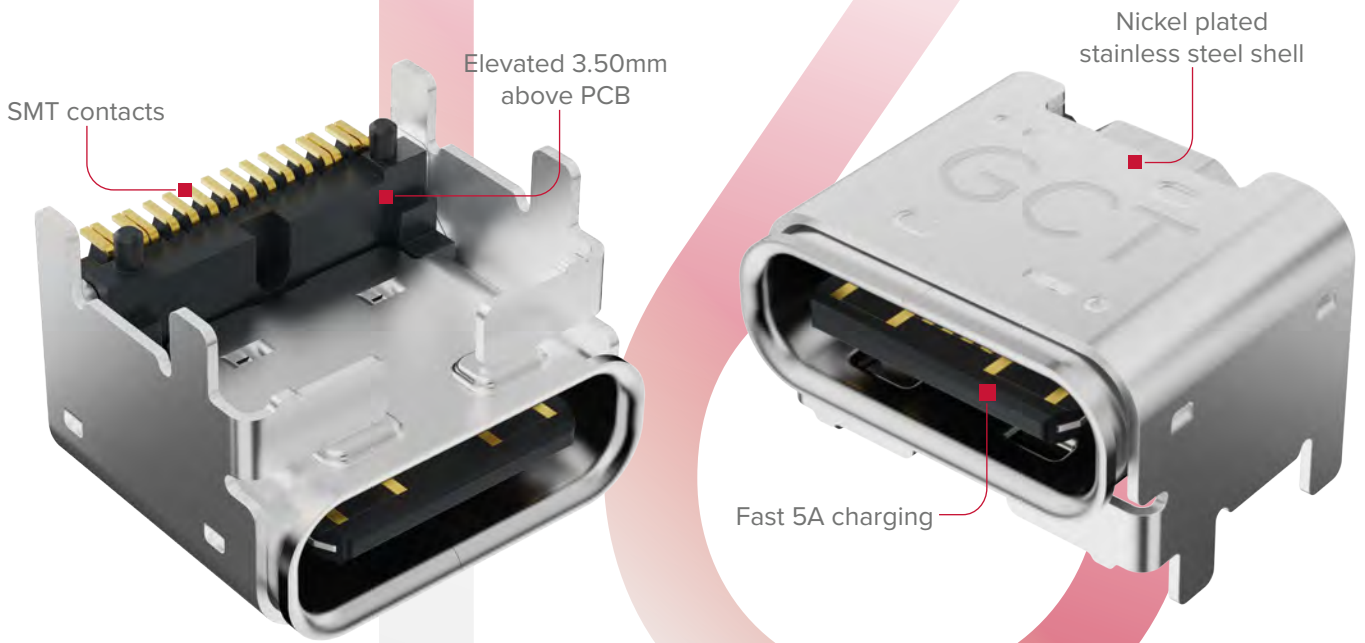
2.30mm Shell Stake

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 3.5mm 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.

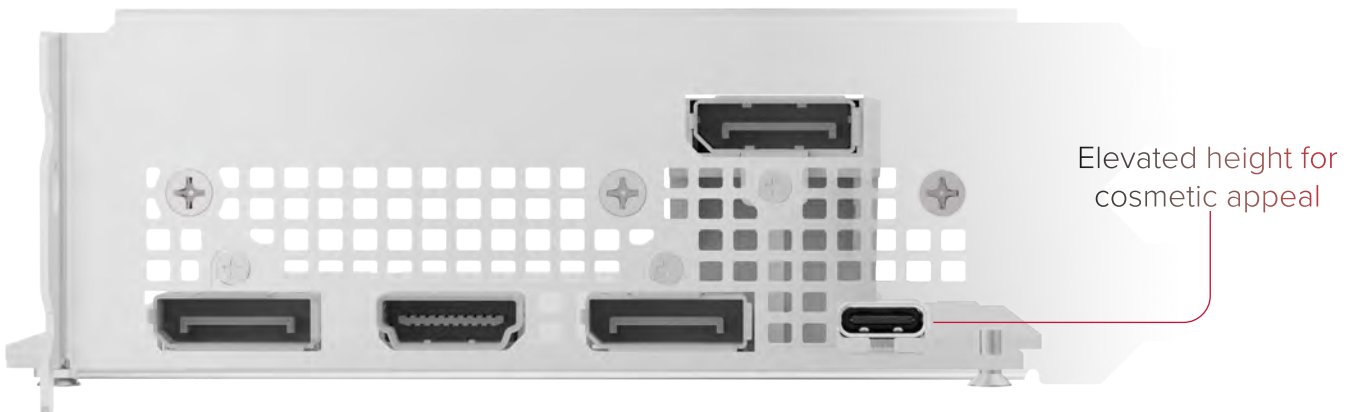


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Product Specifications						
Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	16	10,000	2.0	3.50mm	Top-Mount

Highlight

gct.co/connector/usb4800

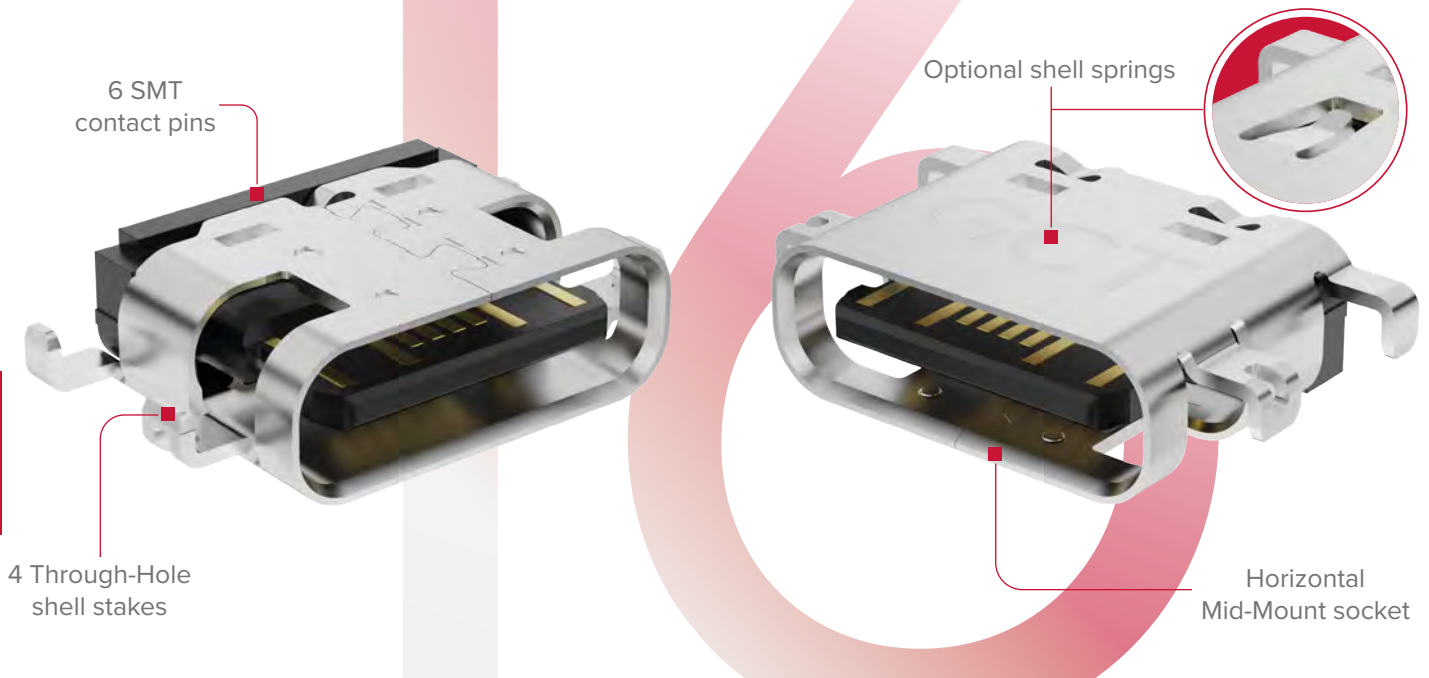


16-Pin Mid-Mount USB Type-C® Range

Key features

- > Four versatile profile options
- > Optional shell springs for improved grounding
- > Stainless steel shell with 4 Through-Hole shell stakes

GCT has further expanded its range of 16-Pin USB Type-C connectors aimed at designs requiring USB2.0 functionality. This series delivers different shell springs options for improved grounding and four profile options (1.06mm, 1.56mm, 2.16mm and 2.36mm) to suit different profile applications whilst providing exceptional stability & PCB retention.



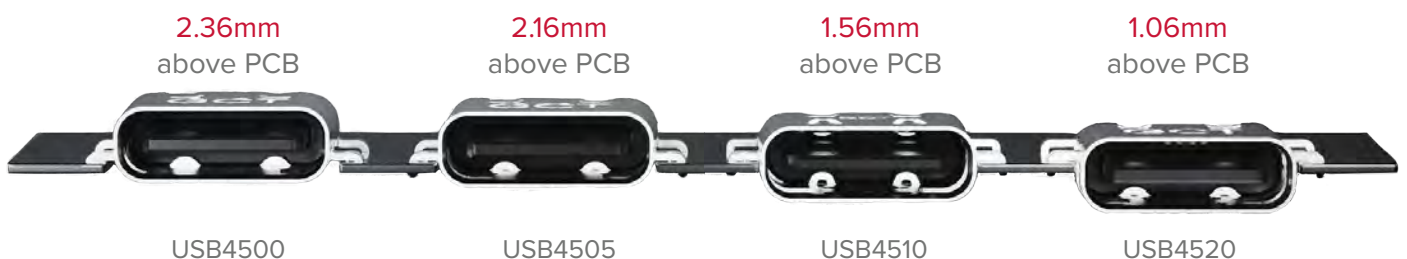
11

Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	16	10,000	2.0	See below	Mid-Mount

Mid-Mount Line-up

gct.co/news/mid-mount-range



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

Our Type-C connectors are the next-generation solution for current and future USB applications. With industry standard design they're small enough for portable devices and small household appliances while also being durable enough for industrial applications. All GCT's Type C products have a reversible interface that can receive a mating half from any direction, making mating simple and reliable.

The GCT 16-Pin range is ideal for application 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 datasheet, product specifications and 3D models to download.



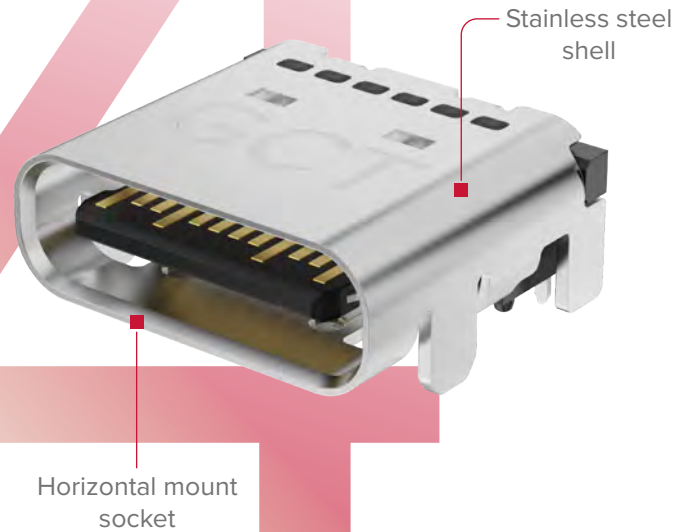
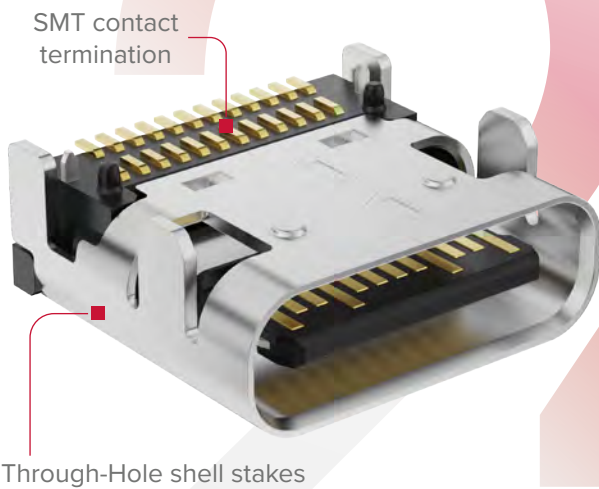
USB Version	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Gender	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle
Number of contacts	16	16	16	16	16	16	16	16	16	16
PCB Orientation	Horizontal	Horizontal	Horizontal	Vertical	Vertical	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
PCB Mount Type	Top	Top	Top	Top	Top	Mid	Mid	Mid	Mid	Top
Shell Stake Type	Thru-hole	Thru-hole	SMT	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole
Profile Height	3.46mm	3.31mm	3.26mm	6.50mm	7.46mm	3.16mm	3.16mm	3.16mm	3.16mm	6.68mm
Body Length	9.17mm	7.53mm	7.35mm	6.50mm	5.90mm	6.50mm	6.50mm	6.50mm	6.50mm	8.00mm
PCB Pin Type	Thru-hole	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT
Mid-Mount offset	-	-	-	-	-	0.80mm	1.00mm	1.60mm	2.10mm	-
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	-	0.95mm	-	-	1.70mm	-	-	-	-	-
Shell Stake Length 3	-	1.20mm	-	-	2.30mm	-	-	-	-	-
Contact Plating	Gold Flash	Gold Flash	Gold Flash	3μ" gold	3μ" gold	3μ" gold	3μ" gold	3μ" gold	3μ" gold	3μ" gold
Current Rating	3A	5A	5A	5A	5A	5A	5A	5A	5A	5A
Mating Cycles	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

Value Engineered SMT 24-Pin USB Type-C®

Key features

- > SMT contact termination
- > 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 posts ensure perfect positioning while 4 Through-Hole shell stakes ensure exceptional PCB retention.



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Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	24	10,000	3.2 Gen 2	3.16mm	Top-Mount

Applications

gct.co/connector/usb4080



Digital and smart TV



Gaming stations



Virtual reality technology



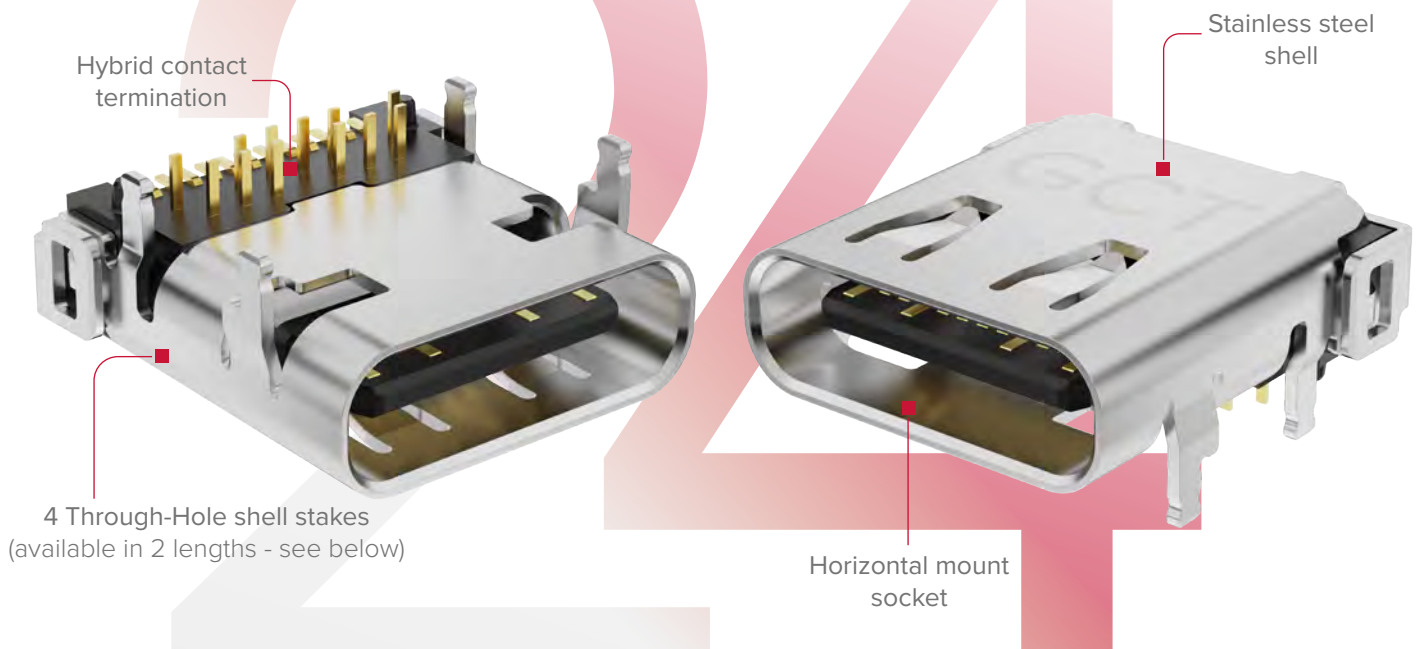
Action cameras

Value Engineered Hybrid-Mount 24-Pin USB Type-C®

Key features

- > 24 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 ensure exceptional PCB retention.



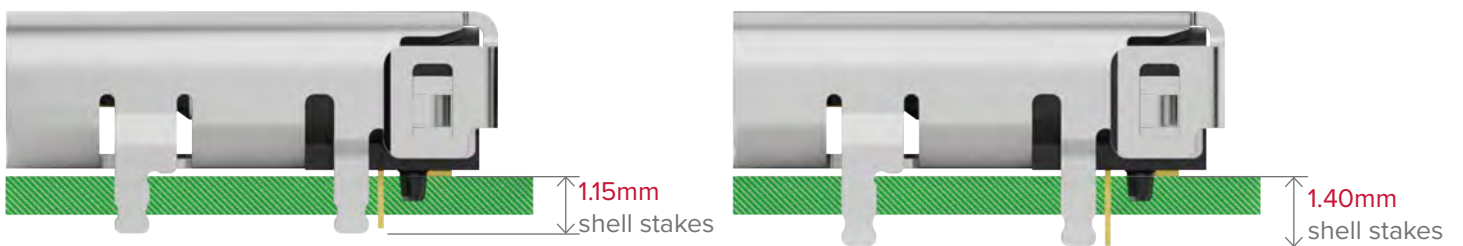
14

Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	24	10,000	3.2 Gen 2	3.31mm	Top-Mount

Highlight

gct.co/connector/usb4056



Edge-Mount 24-Pin USB Type-C®

Key features

- > Low profile at 2.90mm
- > Metal shell step engages with case designs
- > Full speed data and power transfer

USB4155 is an innovative and unique 24-Pin PCB Edge-Mount connector with fully SMT contact termination. It has a Mid-Mount profile of 2.90mm above the PCB & its same side contact design gives increased flexibility over traditional straddle mount versions. Designed and manufactured to meet USB Type-C 3.2 Gen 2 specification USB4155 has a 5A current rating.



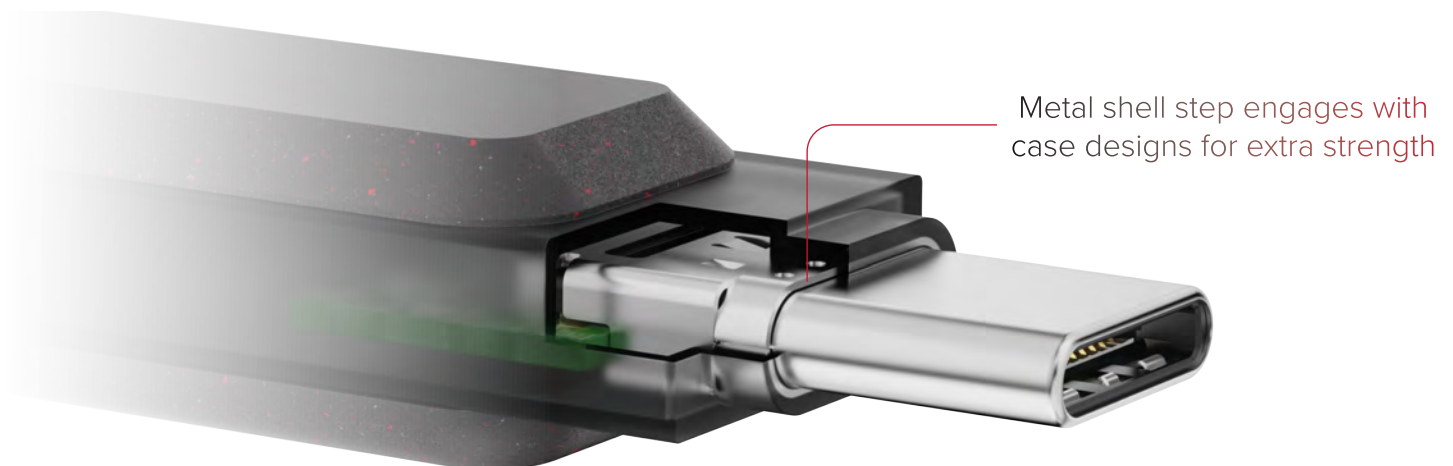
15

Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	24	10,000	3.2 Gen 2	2.90mm	Edge-Mount

Highlight

gct.co/connector/usb4155

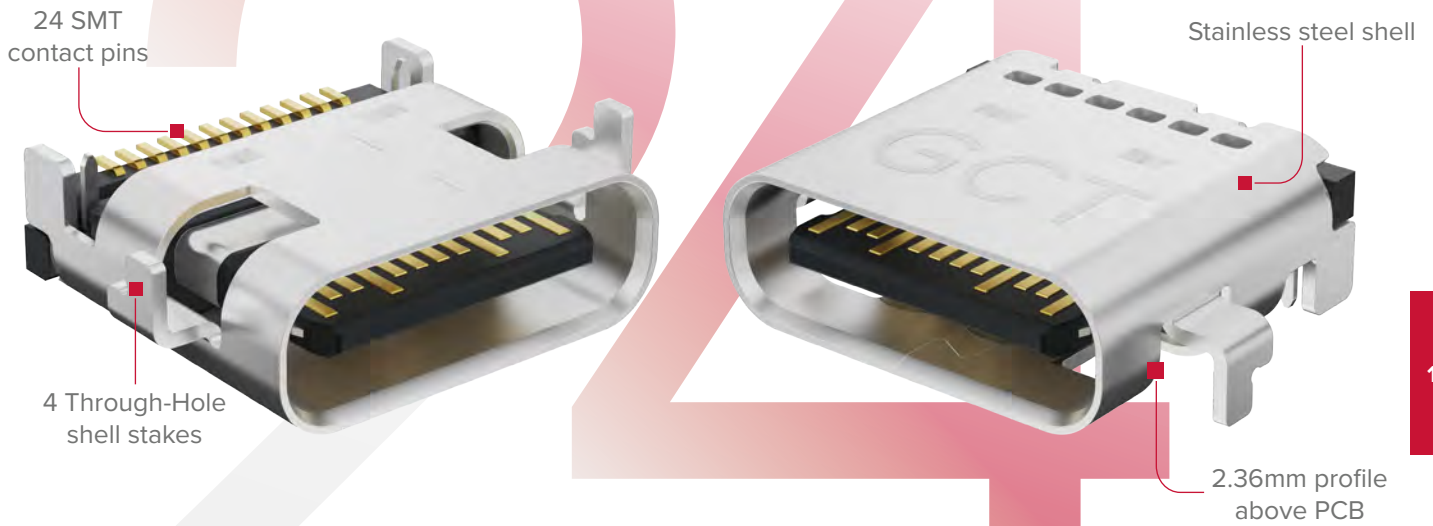


Value Engineered Mid-Mount 24-Pin USB Type-C®

Key features

- > Cost-effective solution
- > USB 3.2 Gen 2 with a 0.80mm offset
- > Low profile only at 2.36mm above PCB

USB4525 has been developed with fully automated assembly and offers full specification USB Type-C products without sacrificing quality. SMT contact pins with 4 Through-Hole shell stakes ensure superior PCB retention and Mid-Mount allows engineers increased design options where a low profile is crucial.



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Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	24	10,000	3.2 Gen 2	2.36mm	Mid-Mount

Applications

gct.co/connector/usb4525



Digital and smart TV



Gaming stations



Virtual reality technology



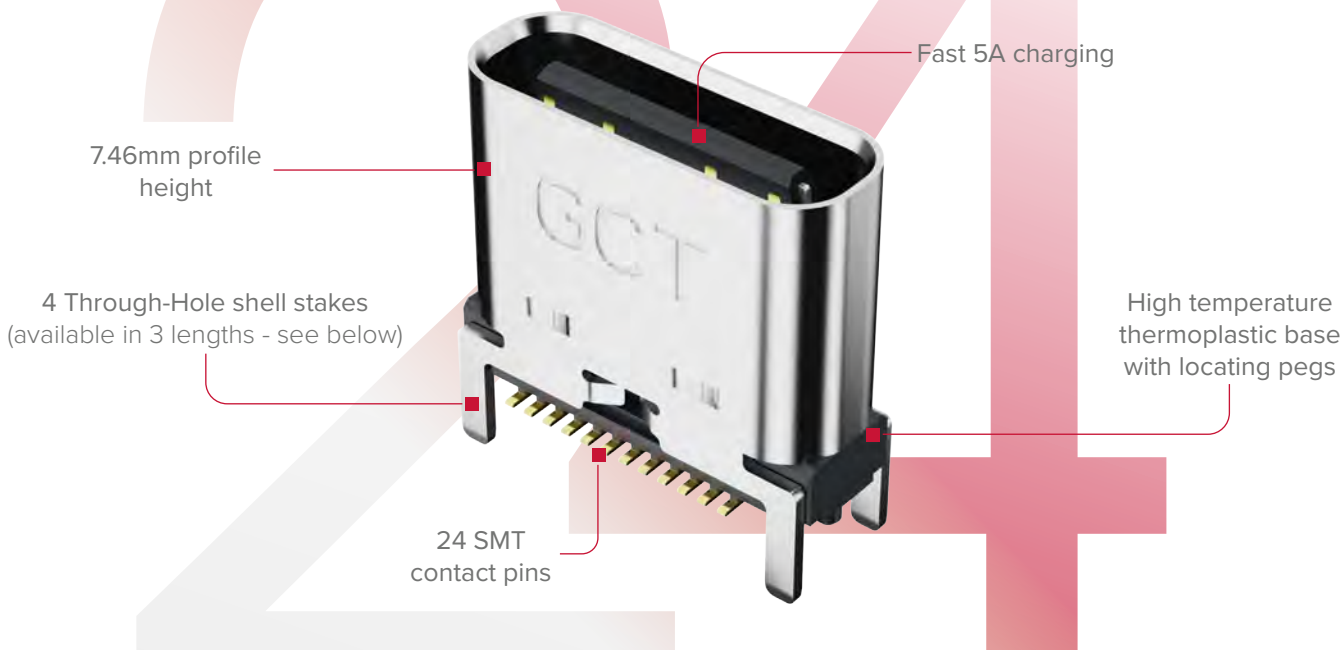
Consumer electronics

Vertical-Mount 24-Pin USB Type-C®

Key features

- > Multiple shell stake lengths
- > 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.



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Product Specifications

Interface	Current rating	No. Of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Type-C	5 Amps	24	20,000	3.2 Gen 2	7.46mm	Vertical-Mount

Highlight

gct.co/connector/usb4160



0.70mm Shell Stake



1.70mm Shell Stake



2.30mm Shell Stake

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

Our Type-C connectors are the next-generation solution for current and future USB applications. With industry standard design they're small enough for portable devices and small household appliances while also being durable enough for industrial applications. All GCT's Type C products have a reversible interface that can receive a mating half from any direction, making mating simple and reliable.

The 24-Pin variants support a number of protocols, and it can be used to connect to HDMI, VGA, DisplayPort, 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 datasheet, product specifications and 3D models to download.



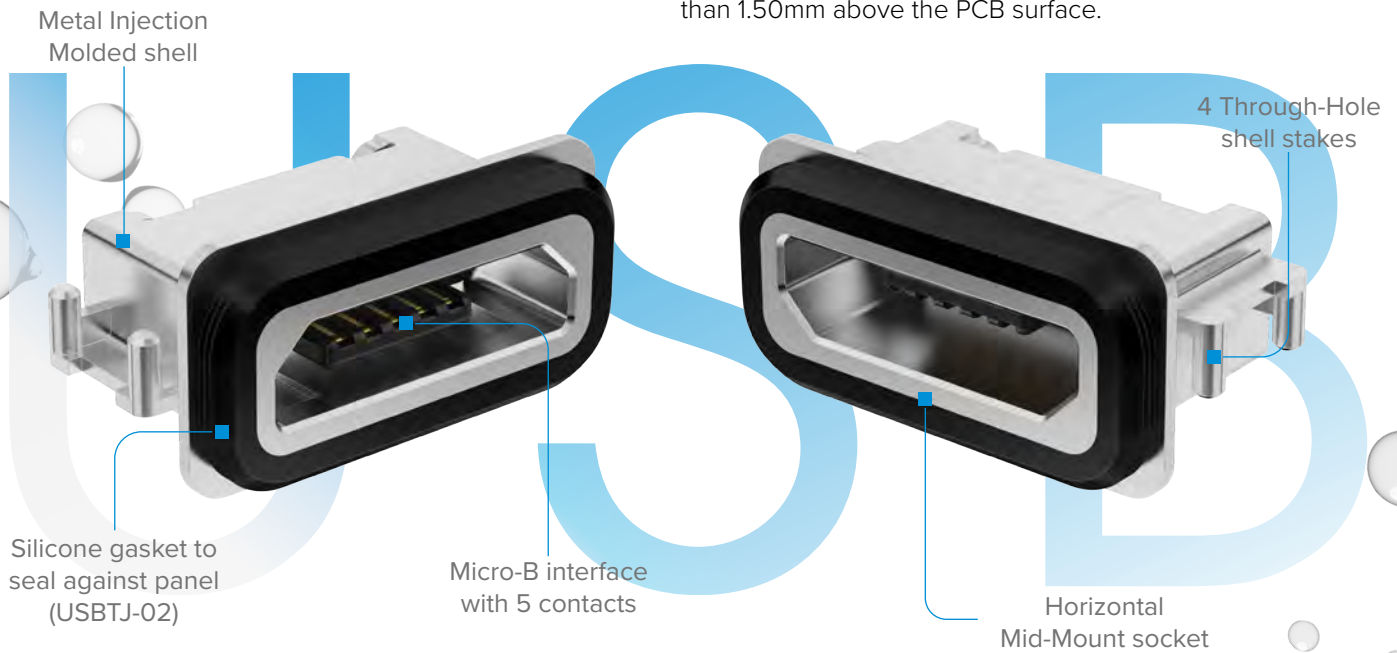
	USB4050	USB4055	USB4056	USB4060	USB4065	USB4070	USB4080	USB4115	USB4151	USB4155	USB4160	USB4525
USB Version	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2	3.2 GEN 2
Gender	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Plug	Plug	Receptacle	Receptacle
Number of contacts	24	24	24	24	24	24	24	24	24	24	24	24
PCB Orientation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Vertical	Horizontal	Vertical	Vertical	Horizontal	Vertical	Horizontal
PCB Mount Type	Mid	Top	Top	Mid	Top	Top	Top	Top	Top	Edge	Top	Mid
Shell Stake Type	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole	Thru-hole
Profile Height	3.42mm	3.46mm	3.31mm	3.42mm	3.46mm	10.50mm	3.16mm	9.25mm	11.10mm	2.90mm	7.46mm	3.16mm
Body Length	10.0mm	10.0mm	9.87mm	8.65mm	8.65mm	10.50mm	7.90mm	9.25mm	11.10mm	15.50mm	5.90mm	7.90mm
PCB Pin Type	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	SMT	SMT	SMT	SMT	SMT	SMT	SMT
Mid-Mount offset	1.37mm	-	-	1.37mm	-	-	-	-	-	-	-	0.80mm
Shell Stake Length 1	0.60mm	1.20mm	1.15mm	0.60mm	1.20mm	1.30mm	0.50mm	1.15mm	1.25mm	0.90mm	0.70mm	0.80mm
Shell Stake Length 2	-	-	1.40mm	-	-	-	-	-	-	-	1.70mm	-
Shell Stake Length 3	-	-	-	-	-	-	-	-	-	-	2.30mm	-
Contact Plating	30µ" gold	30µ" gold	3µ" gold	30µ" gold	3µ" gold	30µ" gold	3µ" gold	3µ" gold	Gold Flash	3µ" gold	3µ" gold	3µ" gold
Current Rating	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A
Mating Cycles	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

IP67 Mid-Mount Rated Micro USB

Key features

- > 100% tested for compliance to IP67 rating
- > Low profile at less than 1.5mm
- > Metal Injection Molded single-piece shell

Unlike other IP-rated micro-USB products, GCT's USB3500 is manufactured using a Metal Injection Molding (MIM) process to produce a single-piece stainless steel shell. This advanced technology removes the need for folded seams which are a common ingress failure point. For absolute peace of mind, all USB35xx series parts are 100% vacuum tested to ensure IP67 rating. USB3500 is a Mid-Mount connector with a profile of less than 1.50mm above the PCB surface.



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Product Specifications

Interface	Current rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
IP67 USB Micro-B	1.8 Amps	5	10,000	2.0	1.43mm	Mid-Mount

Applications

gct.co/connector/usb3500



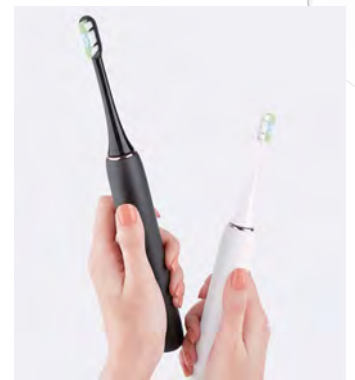
Outdoor Security cameras



Portable audio



Wearables



Health & Beauty products

IP67 Top-Mount Rated Micro USB

Key features

- > 100% tested for compliance to IP67 rating
- > 4 Through-Hole shell stakes
- > Metal Injection Molded single-piece shell

Unlike other IP-rated micro-USB products, GCT's USB3505 is manufactured using a Metal Injection Molding (MIM) process to produce a single-piece stainless steel shell. This advanced technology removes the need for folded seams which are a common ingress failure point. For absolute peace of mind, all USB35xx series parts are 100% vacuum tested to ensure IP67 rating. USB3505 is a Top-Mount connector.

4 Through-Hole shell stakes

Metal Injection Molded shell

Silicone gasket to seal against panel (USBTJ-02)

Micro-B interface with 5 contacts

Horizontal Top-Mount socket

Product Specifications

Interface	Current rating	No. of Contacts	Mating Cycles	USB Specification	Profile Above PCB	PCB Mount Type
USB Micro-B	1.8 Amps	5	10,000	2.0	2.95mm	Top-Mount

Applications

gct.co/connector/usb3505



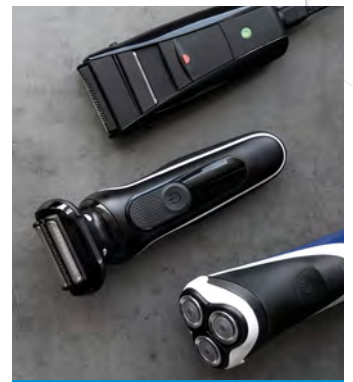
Outdoor Security cameras



Portable audio



Wearables



Health & Beauty products

Push-Push Micro SIM Socket

Key features

- > Bifurcated/split spring contacts
- > SUS304 stainless steel shell
- > Compact footprint for space-restricted designs

SIM7155 is a 3rd generation or 3FF (Form Factor) Push-Push connector for Micro SIM cards. With a compact design of <math><260\text{mm}^2</math> and a profile of only 1.43mm the SIM7155 is perfect for applications with space restrictions. Additional features include bifurcated spring contacts for resilience against vibration, a normally open card detect switch, polarised card insertion protection and an SUS304 stainless steel shell for maximum durability.



Product Specifications

SIM Card Type	Card Insertion	Mating Cycles	Operating Temp	Card Detection	Real Estate	Profile
Micro SIM	Push-Push	3,000	-40°C to +85°C	Yes	258.95mm ²	1.43mm

Highlight

gct.co/connector/sim7155

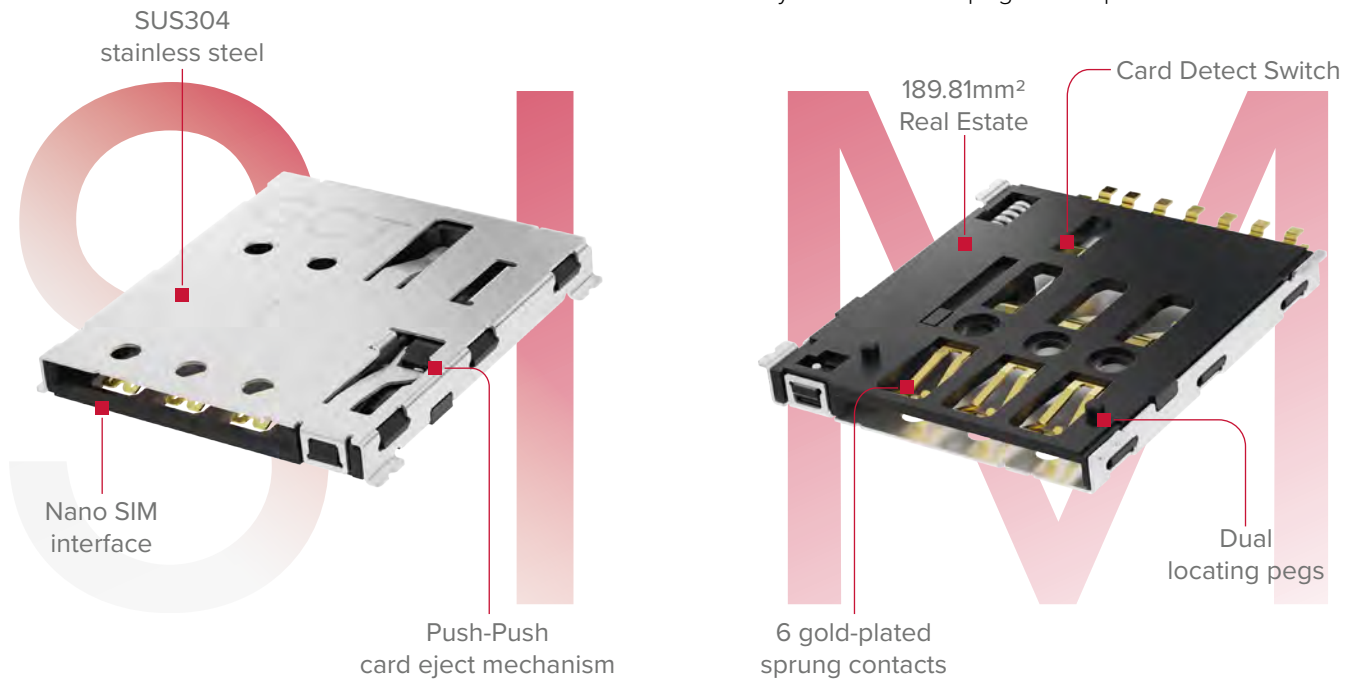


Push-Push Super Slim Nano SIM Socket

Key features

- > Profile of only 1.44mm
- > Card detection switch
- > <math><190\text{mm}^2</math> footprint

SIM8066 is a 4th generation or 4FF (Form Factor) Push-Push connector for Nano SIM cards. With a compact design of <math><190\text{mm}^2</math> 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.



Product Specifications

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	189.81mm ²	1.44mm

Applications

gct.co/connector/sim8066



Logistics tracking



Mobile applications



Smart metering



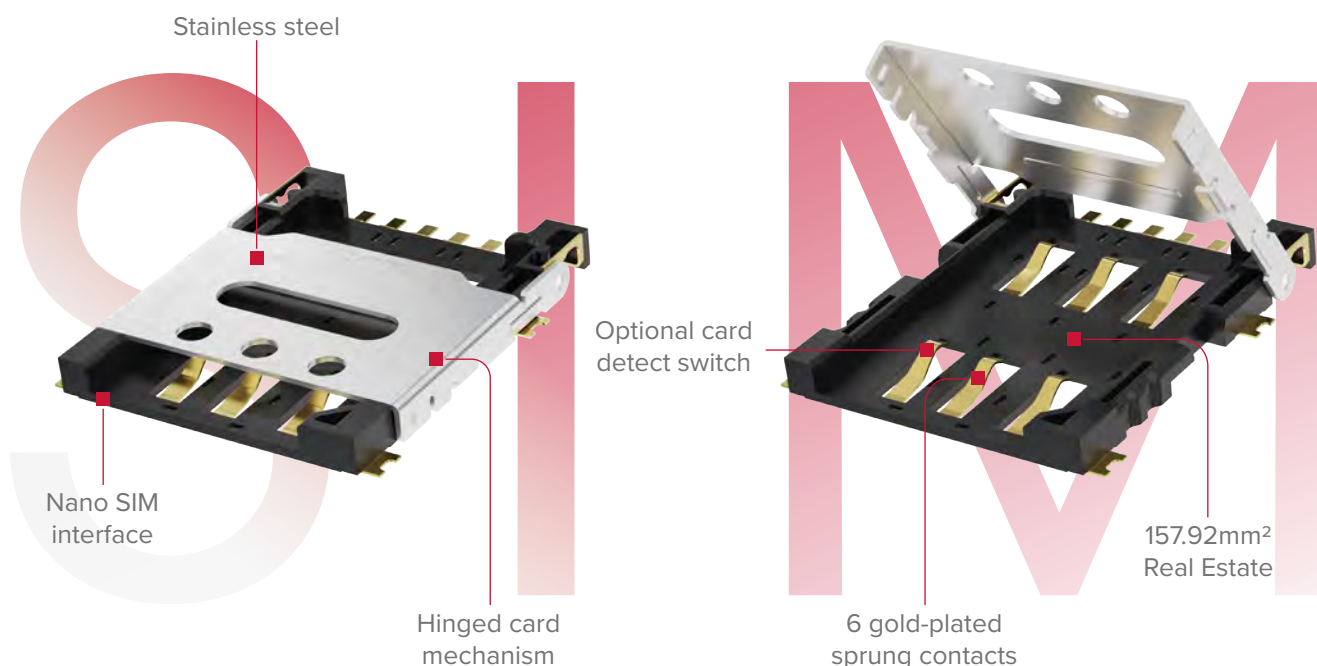
Satellite navigation

Hinged Nano SIM Socket

Key features

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

SIM8060 is a 4th 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.



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Product Specifications

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

gct.co/connector/sim8060



Logistics tracking



Mobile applications



Smart water meter



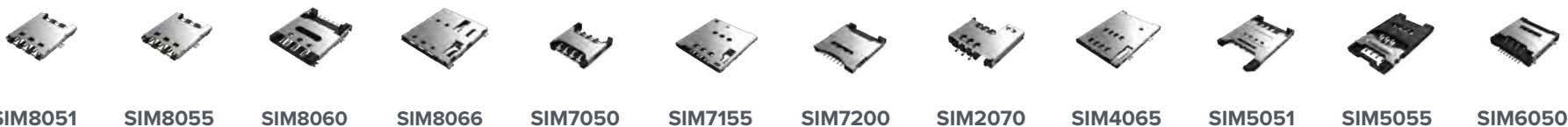
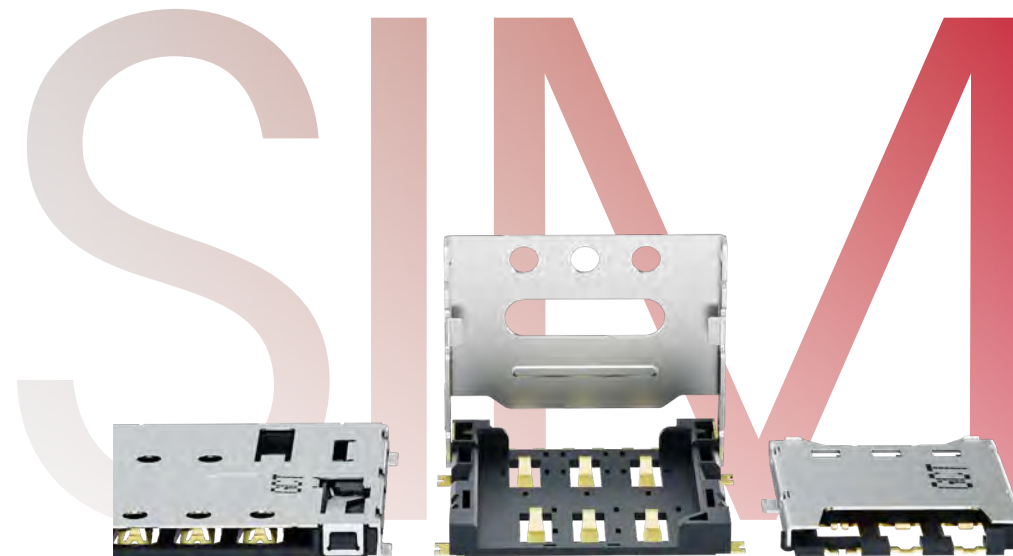
Satellite navigation

SIM Connector Selection Guide

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

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 represented with a variety of card insertion mechanisms, in addition to great features, including card detection, low profiles and shock/vibration resistance, so what do you choose?

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.



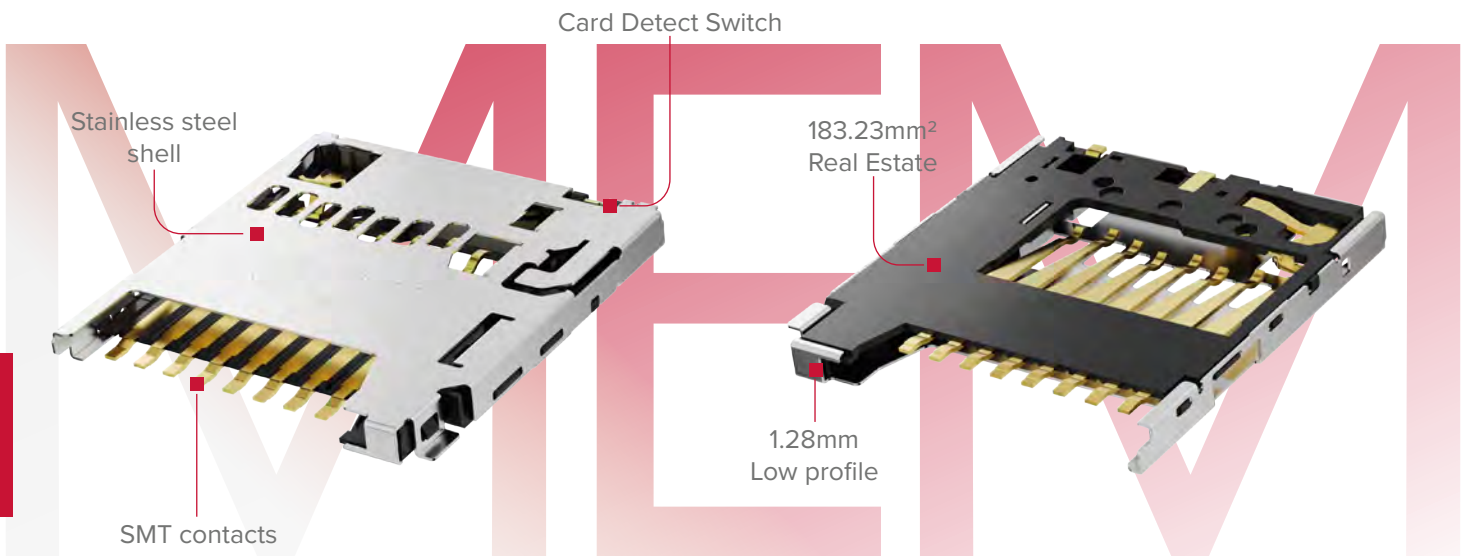
	SIM8051	SIM8055	SIM8060	SIM8066	SIM7050	SIM7155	SIM7200	SIM2070	SIM4065	SIM5051	SIM5055	SIM6050
SIM Card Size	Nano/4ff	Nano/4ff	Nano/4ff	Nano/4ff	Micro/3ff	Micro/3ff	Micro/3ff	Mini/2ff	Mini/2ff	Mini/2ff	Mini/2ff	Mini/2ff
Card Insertion Type	Push-Pull	Push-Pull	Hinged	Push-Push	Push-Pull	Push-Push	Hinged	Push-Pull	Push-Push	Hinged	Hinged	Push-Pull
Profile	1.35mm	1.35mm	1.43mm	1.44mm	2.45mm	1.43mm	1.75mm	3.44mm	1.60mm	1.85mm	2.50mm	3.00mm
Card Detection Switch	No	Yes/Open	Yes/Open	Yes/Closed	No	Yes/Closed	No	Yes/Open	Yes/Closed	No	Yes/Open	No
With Locating Peg	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No
Dual SIM	No	No	No	No	No	No	No	No	No	No	No	Yes
Number of Contacts	6	6	6	6	6-8	6	6	6	8	6	6	2x8
Durability	1500 Cycles	5000 Cycles	5000 Cycles	5000 Cycles	5000 Cycles	3000 Cycles	5000 Cycles	5000 Cycles	5000 Cycles	5000 Cycles	5000 Cycles	5000 Cycles
Reel Quantity	1500	1500	1500	1500	900	1500	1300	700	1000	700	900	700

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 the slimmest MicroSD memory card 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 and +85°C and testing to 5,000 mating cycles.



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Product Specifications

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	183.23mm ²	Top-Mount	Stainless steel

Applications

gct.co/connector/mem2080



Logistics tracking



Digital Cameras



Aerial Drones



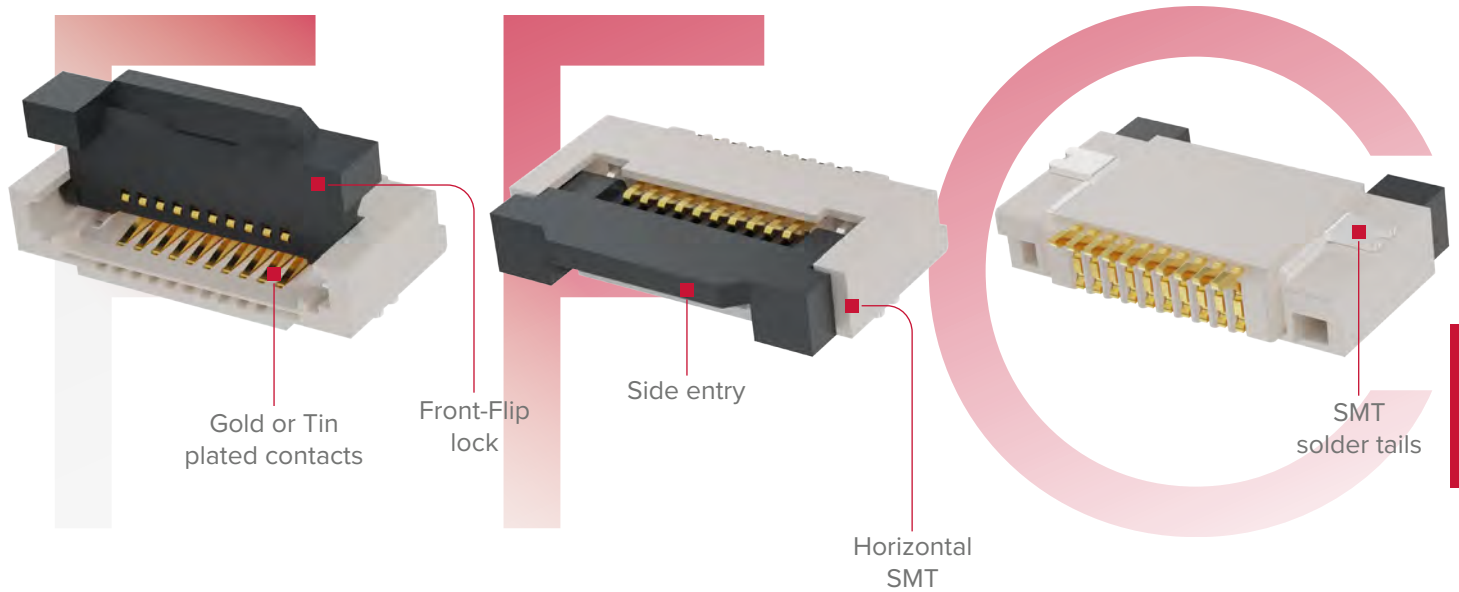
Security Camera

Front-Flip 0.50mm Pitch FFC Connector

Key features

- > Cost-saving solution
- > 0.5mm 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 2.0mm 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.



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Product Specifications

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



Scanners



Robotics



Gaming stations



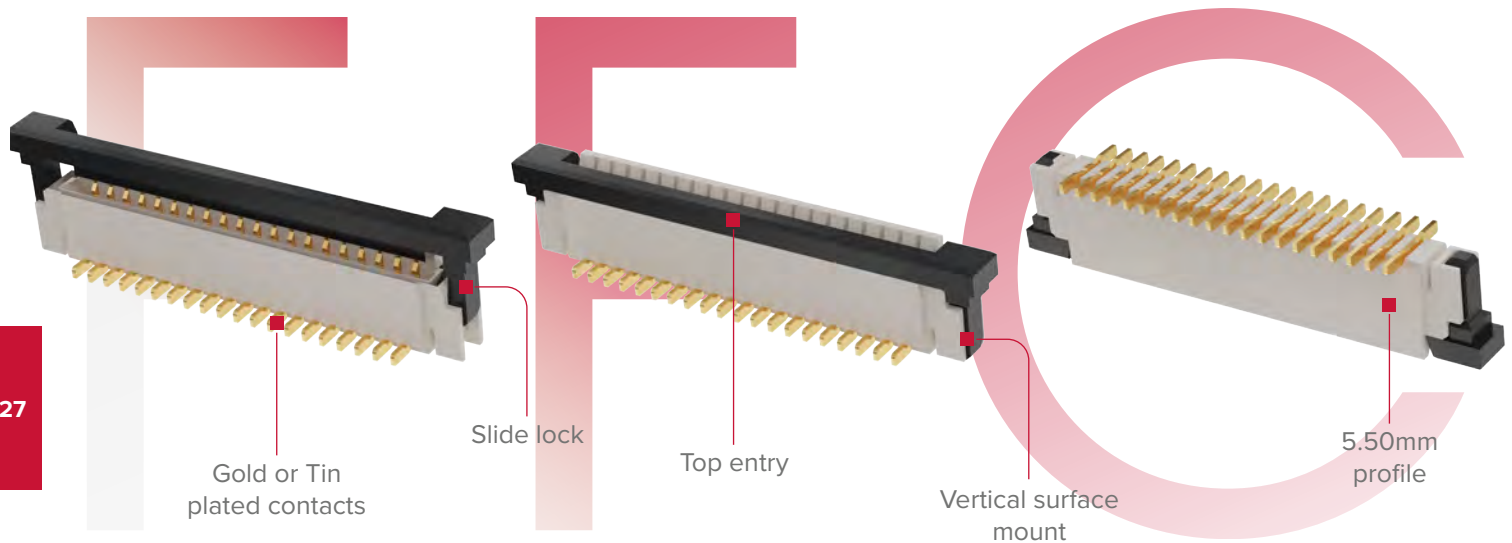
Virtual reality technology

Vertical 1.00mm Pitch FFC Connector

Key features

- > Cost-effective solution
- > Gold or Tin plating
- > Vertical mount variant to complement existing horizontal options

GCT's fully automated manufacturing capability allows our ZIF FFC connector range to be ultra-competitively priced without compromising on quality. The 1.00mm pitch, vertical mount FFC3A20 series is no exception. These 5.50mm profile ZIF sockets are available in both gold and tin plating with a pin count from 4 through 30. GCT also manufactures Flat Flex Cable to perfectly match our connector products.



Product Specifications

Pitch	Actuator Type	No. Of Contacts	Profile	Contact Plating	PCB Mount Type
1.00mm	Slide Lock	4 - 30	5.50mm	Gold(std) or Tin	Vertical

Applications

gct.co/connector/ffc3a20



Intercom systems



Aerial drone controller



Robotics



Action cameras

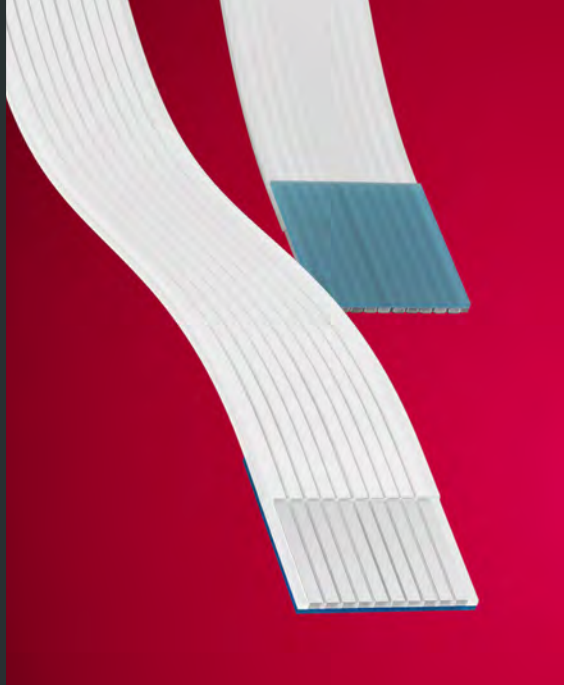
FFC Connector Selection Guide

GCT offer a range of Flat Flexible Cable (FFC) and Flat Printed Circuit (FPC) connectors in 0.3, 0.5 & 1.0mm 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 0.5 and 1.0mm pitches.

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



	FFC1B06	FFC2A32	FFC2A33	FFC2B16	FFC2B21	FFC2B27	FFC2B28	FFC2B29	FFC2B35	FFC2C05	FFC3A20	FFC3B07	FFC3B11
Pitch	0.3mm	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm	0.50mm	0.5mm	0.5mm	0.5mm	1.0mm	1.0mm	1.0mm
PCB Mount Type	Horizontal -SMT	Vertical -SMT	Vertical -SMT	Horizontal -SMT	Horizontal -SMT	Horizontal -SMT	Horizontal -SMT	Horizontal -SMT	Horizontal -SMT	Horizontal -SMT	Vertical -SMT	Horizontal -SMT	Horizontal -SMT
Actuator Type	Front Flip Lock	Slide Locking	Slide Locking	Slide Locking	Slide Locking	Back Flip Lock	Back Flip Lock	Back Flip Lock	Front Flip Lock	Back Flip Lock	Slide Locking	Slide Locking	Slide Locking
Cable Entry Type	Side Entry	Top Entry	Top Entry	Side Entry	Side Entry	Side Entry	Side Entry	Side Entry	Side Entry	Side Entry	Top Entry	Side Entry	Side Entry
Cable Contact Type	Bottom Contact	X	X	Top Contact	Bottom Contact	Dual Contact	Dual Contact	Dual Contact	Bottom Contact	Dual Contact	X	Bottom Contact	Top Contact
Profile	1.00mm	4.25mm	4.50mm	2.00mm	2.00mm	2.00mm	1.00mm	2.60mm	2.00mm	2.24mm	5.50mm	2.50mm	2.50mm
Plating Std	Gold Flash	TIN	TIN	TIN	TIN	Gold Flash	Gold Flash	Gold Flash	TIN	Gold Flash	Gold Flash	TIN	TIN
Plating Optional	TIN	Gold Flash	Gold Flash	Gold Flash	Gold Flash	N/A	N/A	N/A	Gold Flash	N/A	TIN	Gold Flash	Gold Flash
No. of Contacts	13-51	4-60	4-60	4-40	4-40	4-40	4-40	4-60	4-60	4-68	4-30	4-40	4-40
Current Rating	0.2A	0.5A	0.2A	0.4A	0.4A	0.4A	0.4A	0.4A	0.5A ^(40 Contacts) 0.4A ^(60 Contacts)	0.4A	1.0A	0.4A	0.4A



Flat Flex Cables



Custom connectors



Board to Board



DC Power jacks

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



Modular jacks



Overmolded cable assemblies



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