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Feature Products

USB Connectors
RF Solutions
SIM & MEM Card Connectors
Board to Board Connectors
FFC Solutions
Terminal Blocks
Spring Contacts
Tactile Switches
Custom Solutions



GCT specializes in the design and supply of connector and cable assembly solutions for a wide range of electronic applications. With decades of experience and a global presence, GCT delivers reliable, high-quality components that meet the demands of modern electronic systems.

GCT supports customers with a strong focus on service, product availability, and technical expertise. Their commitment to quality and flexible production ensures dependable solutions for projects across industries.

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USB Type-C®

Versatile, Powerful, & Reliable.

GCT's USB-C connectors deliver compact, high-performance connectivity for modern electronic devices. Supporting high-speed data transfer, Power Delivery (PD), and robust mating cycles.

These connectors are designed to meet the increasing demands of portable and power-hungry applications.

Available with IP-rated variants for enhanced environmental protection, they offer flexible solutions for consumer electronics, industrial, and automotive designs requiring reliable and future-proof interconnects.

①

IP-rated options

IP67 & IP68 environmental sealing against dust and moisture. Ideal for demanding applications.

②

High mating cycle durability

Engineered for up to 20,000 mating cycles, ensuring long-term reliability in frequent connection applications.

③

Power Delivery (PD) support

Enables fast charging and power transfer up to 240W for a wide range of devices and electronic systems.

④

IEC certified for quality and compliance

Meets international standards to ensure reliable performance, safety, and interoperability in demanding applications.



IP-Rated for Sealed Performance



USB4745
IP68
24-Pin USB 3.2 Gen 2
Integrated gasket



USB4725
IP67
24-Pin USB 3.2 Gen 2
Separate gasket



USB4720
IP67
16-Pin USB 2.0
Integrated gasket



USB4715
IP67
6-Pin Charge only
Separate gasket

Compliance to Industry Standards



USB4115
TID & IEC Approved
20,000 Mating Cycles
24-Pin USB 3.2 Gen 2



USB4200
TID & IEC Approved
Flag Type
24-Pin USB 3.2 Gen 2



USB4120
TID & IEC Approved
6.50mm profile
16-Pin USB 2.0



USB4800
TID & IEC Approved
Elevated
16-Pin USB 2.0

Durable Solutions for Repeated Use



USB4525
20,000 Mating Cycles
24-Pin 3.2 Gen 2
240W



USB4205
20,000 Mating Cycles
16-Pin Elevated Flag Type
240W



USB4730
20,000 Mating Cycles
16-Pin USB2.0
IP67



USB4175
20,000 Mating Cycles
6-Pin Charge Only
11.0mm profile

Space-Consious Vertical Orientation



USB4160
24-Pin 3.2 Gen 2
Multiple shell stake lengths
7.46mm profile



USB4145
16-Pin USB2.0
Multiple shell stake lengths
7.46mm profile



USB4140
6-Pin Charge Only
Multiple shell stake lengths
6.50mm profile



USB4180
6-Pin Charge Only Plug
Low mating force
11.60mm profile

Explore More USB Type-C® Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Type-C® range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



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RF Solutions

Sealed, High-Frequency Performance with Proven Reliability

From outdoor enclosures to compact wireless devices, GCT offers a flagship range of RF coaxial solutions engineered for reliable performance.

Whether you're designing for GSM, GPS, Wi-Fi, IoT, smart city infrastructure, or industrial automation, GCT's Cable Assemblies, Connectors, Antennas, and Accessories are built to deliver - even in the most demanding conditions.

① Standard and IP Rated Options

Flexible solutions with both standard and sealed IP-rated designs for use in various environmental conditions.

② Accelerated Life Testing (ALT)

Proven long-term performance through rigorous accelerated life testing, ensuring consistent signal integrity.

③ High-Frequency Signal Integrity

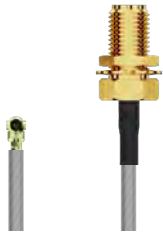
Optimized for minimal signal loss and reliable performance in high-frequency communication systems.

④ Compact, Space-Saving Designs

Small form factors ideal for space-constrained PCBs in wireless and RF-enabled devices.



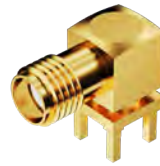
Reliable RF Connections for Everyday Designs



CAB468RF
IPEX MHF I Plug to RP SMA Straight
1.13mm $\varnothing$ Coaxial Cable
DC to 6GHz



CAB661RF
SMA Straight Plug Free Hang
-40 to +125°C
DC to 12.4GHz



RFPC-SMA27-F
SMA Right Angle Jack
-55 to +125°C
DC to 6GHz



RFPC-SMA28-F
SMA Straight Jack
-55 to +125°C
DC to 6GHz

IP-Rated RF Connectors for Reliable PCB Integration



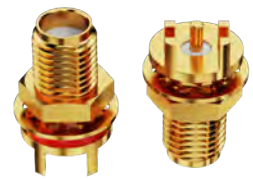
RFPC-SMA22-FN
IP68/69K Right Angle
DC to 6GHz
Stainless Steel/Brass



RFPC-SMA23-FN
IP68/69K Edge Mount
DC to 6GHz
Brass, Gold Plated



RFPC-TNC01-FN
IP67/68 Right Angle
DC to 4GHz
Brass, Nickel Plated



RFPC-SMA39-FN
IP67 Edge Mount
DC to 18GHz
Brass, Gold Plated

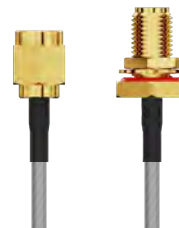
Waterproof Cable Assemblies for Reliable Field Deployment



CAB606RF
SMA Extender cables
IP67/68/69K, IP Rated Front and Rear
LMR-100® Equivalent cable



CAB442RF
IPEX MHF I to Isolated SMA Jack
IP67
DC to 6GHz



CAB243RF
SMA Straight Plug to Straight Jack
IP67/68
6 cable size options



CAB459RF
IPEX MHF 1 LK to SMA Straight Jack
IP67/68
DC to 6GHz

Support Long-Term Durability with Sealed Accessories



RFAD-SA3SA2-01-N
IP67
SMA Bulkhead Jack to SMA Jack Adapter
Brass, Gold Plated



RFA-100-005
IPX5
SMA Antenna Stick quad Band
Swivelling elbow 180°, 90°, 45°



RFCT-SMA-CAP-GS-5
IP67
SMA Stainless Steel Protective Cap
Silicone Gasket sealed



RFCT-TNC-CAP-GS-2
IP67
SMA Stainless Steel Protective Cap
Silicone Gasket sealed

Explore More RF Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full RF range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



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No Tape No Compromise

Sealed SMA Extender Cables a Fit-and-Forget solution. Anywhere.



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This is a computer-generated rendering for illustrative purposes. It does not depict an actual photograph of the product or its real-world installation.



Built to Withstand 10,000 Connections

Engineered Connector Pair for High-Cycle ePOS Docking Systems

When performance meets repetition, durability is everything. GCT developed a high-mating-cycle connector set for an ePOS docking and charging system — designed to deliver over 10,000 cycles with reliable USB2.0 data and power transfer.

A spring-contact design with a self-wiping nipple feature ensures consistent connectivity. Tight tolerances are maintained with beryllium copper, and a dedicated pick-up area supports precise placement during assembly.

Reliable docking, day after day.



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Tactile Switches

Precision Control and Reliable Performance

GCT's tactile switches offer precise control and high reliability across a wide range of compact electronic applications.

Designed for use in consumer electronics, industrial controls, and instrumentation, they deliver consistent mechanical performance with tactile, responsive feedback. The range includes IP67-rated options available for use in harsh environments.

Featuring a variety of actuation forces, profiles, and termination styles, GCT tactile switches meet the demands of both everyday and high-specification applications.

① Tactile and Responsive Feedback

Provides precise actuation with consistent tactile response for user interface applications.

② Versatile Product Range

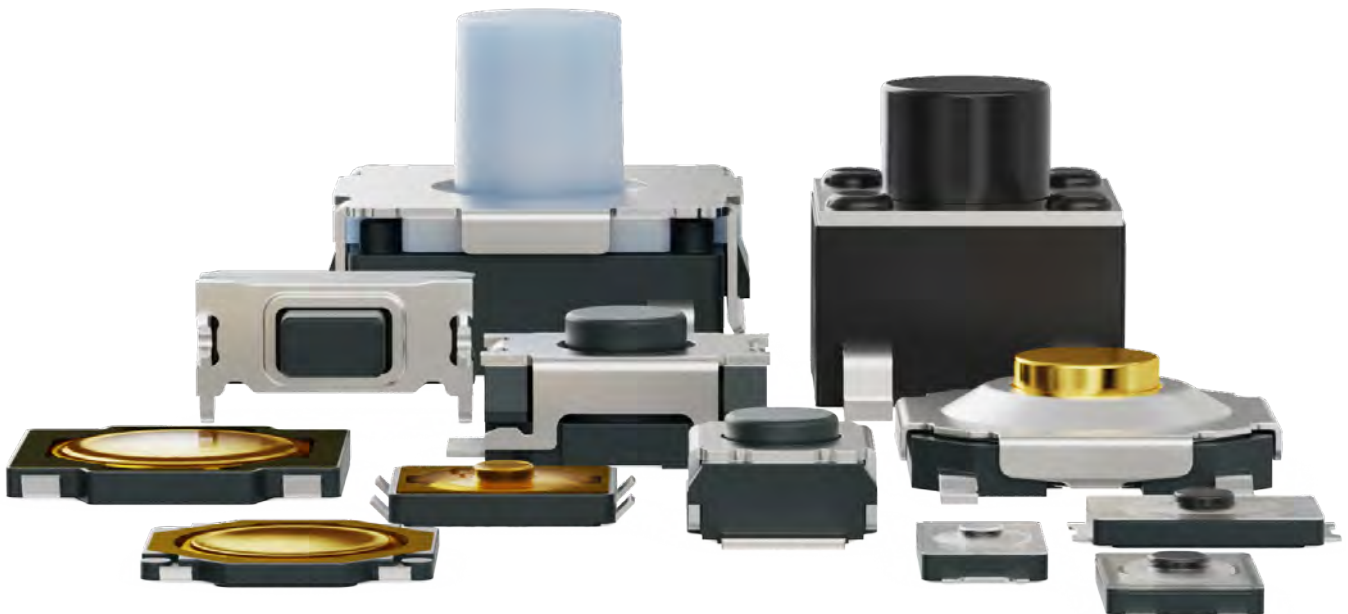
IP67 and non-IP rated options for environmental flexibility, with termination options including SMT, J-Lead, and Gull Wing.

③ Space-Saving Designs for Compact Applications

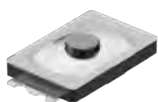
Footprints as small as 2.6 x 1.6mm, with low-profile options from 0.35mm to suit space-constrained designs.

④ Durable, Long-Lasting Operation

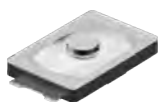
Engineered for up to 500,000 cycles.



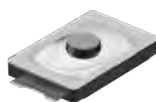
Sealed for Dust and Water Resistance



SWT7015
IP67
100,000 Life Cycles
100gf Actuation Force



SWT7016
IP67
300,000 Life Cycles
160gf Actuation Force

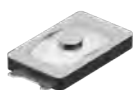


SWT7017
IP67
300,000 Life Cycles
3000gf Actuation Force



SWT7405
IP67
100,000 Life Cycles
400gf Actuation Force

Long-Life Switching with Consistent Tactile Response



SWT7005
500,000 Life Cycles
160/240gf Actuation Force
IP67



SWT7010
500,000 Life Cycles
160gf Actuation Force
IP67



SWT0210
260gf Actuation Force
100,000 Life Cycles
4.5 x 4.5mm Footprint

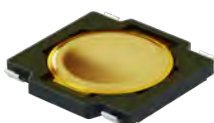


SWT0316
350gf Actuation Force
100,000 Life Cycles
6.0 x 6.0mm Footprint

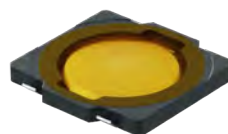
Slim Form Factor for Minimal Clearance Designs



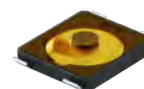
SWT0105
0.35mm Profile
3.7 x 3.7mm Footprint
160gf Actuation Force



SWT0205
0.55mm Profile
4.5 x 4.5mm Footprint
100/160/250gf Actuation Force



SWT0215
0.55mm Profile
4.8 x 4.8mm Footprint
160gf Actuation Force



SWT5005
0.65mm Profile
3.0 x 2.6mm Footprint
100/160gf Actuation Force

High-Actuation Surface for Enhanced Usability



SWT0211
5.5mm Profile
100gf Actuation Force
4.5 x 4.5mm Footprint



SWT0320
8.5mm Profile
160gf Actuation Force
6.0 x 6.0mm Footprint



SWT0305
9.5mm Profile
250gf Actuation Force
6.0 x 6.0mm Footprint



SWT0320
13mm Profile
160gf Actuation Force
6.0 x 6.0mm Footprint

Explore More Tactile Switch Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Tactile Switch range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



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Streamlined for High-Volume Charging

Tailored USB-C Plug for Low-Cost, Low-Pin Applications

For a high-volume device needing only charging functionality, GCT engineered a USB Type-C plug with just the essentials — and nothing more. The result? A 6-pin, low-profile connector with minimized footprint and no retention spring, cutting both cost and complexity.

Designed with automated production in mind, this solution met strict cost targets while maintaining reliable performance.

Now part of the GCT range as USB4180 — proof that great ideas scale.



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Spring Contacts

Small & Grounded

GCT's spring contacts provide compact, versatile solutions for reliable PCB connections across charging, grounding, and antenna applications.

Designed for surface mount, they're available in a range of contact heights and force ratings to suit diverse design needs.

Ideal for space-constrained devices such as wearables, mobile electronics, and medical equipment, these contacts ensure dependable performance with durable construction and easy assembly.

① Compact and Versatile PCB Contacts

Small form factor suited for compact electronics, including wearables and mobile devices.

② Ideal for Charging and Grounding

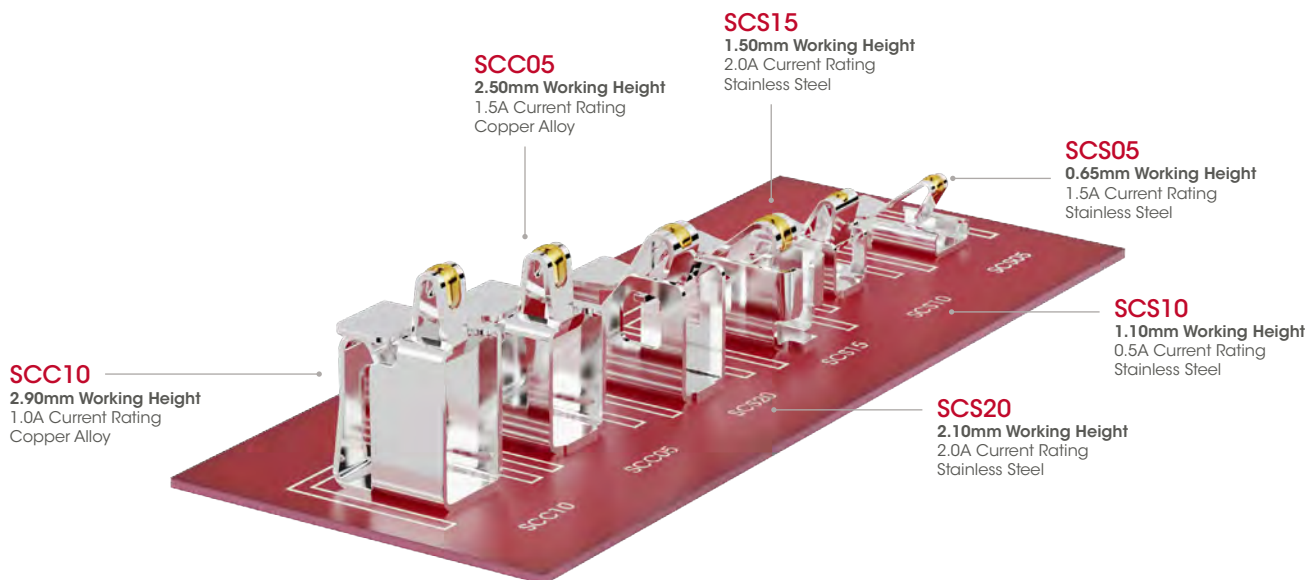
Provides reliable connection for power transfer, grounding, and antenna applications.

③ Wide Range of Contact Heights

Offers design flexibility to meet specific mechanical and electrical application needs with heights of 0.65mm to 2.90mm.

④ High Reliability - Vibration Tested

Contacts have been shock tested (to 490m/s² or 49G) & vibration tested from 20 to 2000Hz.



Explore More Spring Contact Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Spring Contact range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.

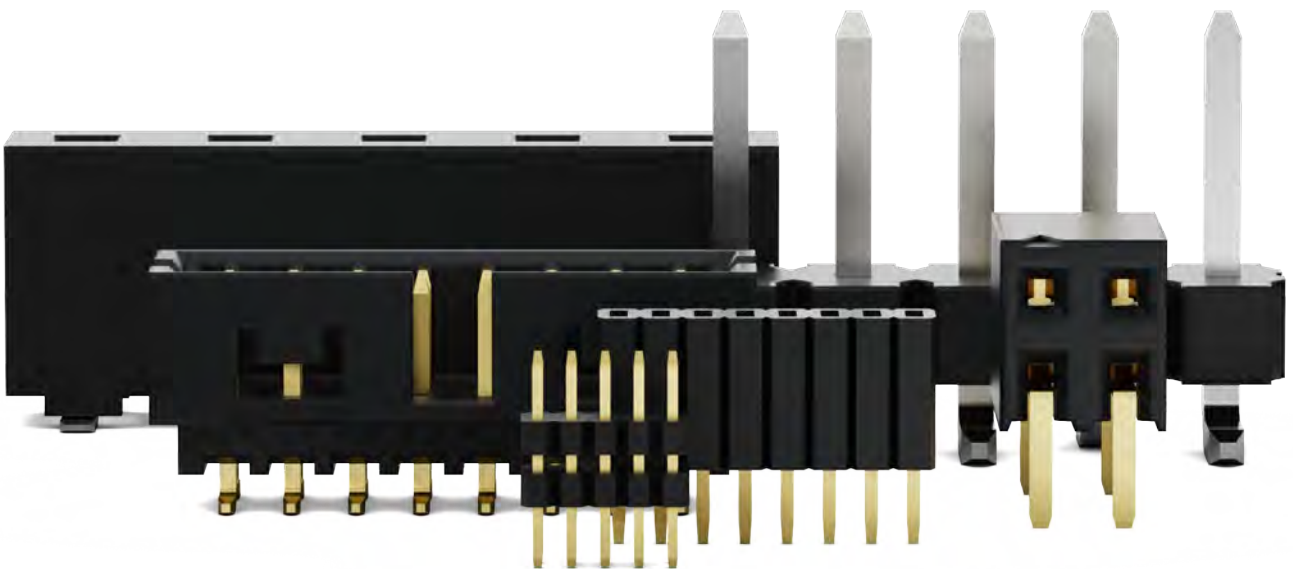


Board-to-Board Connectors

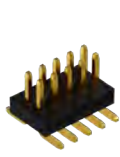
Compact Connections for Reliable PCB Stacking

GCT's board-to-board connectors offer dependable and space-efficient interconnect solutions for connecting PCBs in compact electronic assemblies. Available in a wide range of pitch sizes, stack heights, and orientations, they are ideal for high-density designs where mechanical stability and signal integrity are critical. With options for SMT, and through-hole mounting, GCT provides flexible configurations to suit diverse layout requirements across consumer, industrial, and medical devices.

- ① **Precision-Mated PCB Connections**
Engineered for reliable board stacking with tight tolerance alignment and mechanical strength.
- ② **Flexible Heights and Orientations**
Offered in multiple stack heights, pitches, and mating directions to suit diverse design layouts.
- ③ **High Signal Density in Small Footprints**
Supports compact, multi-board systems without compromising signal performance or PCB real estate.
- ④ **Robust Contact Performance**
Durable contacts with secure mating and long operational life for consistent electrical reliability.



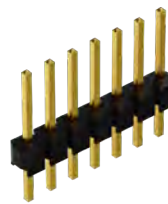
Core Header Components for PCB Stacking



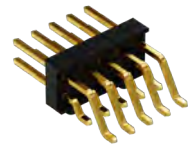
BC050
1.00mm pitch
04 - 80 contacts
Customer specifiable profile



BD120
1.27mm pitch
08 - 50 contacts
5.70mm profile



BF020
2.00mm pitch
02 - 40 contacts
1.50mm, 2.00mm profile



BG066
2.54mm pitch
06 - 60 contacts
6.10mm profile

PCB Sockets for Secure Mechanical Connection



BC085
1.00mm pitch
04 - 80 contacts
2.25mm profile



BD080
1.27mm pitch
03 - 40 contacts
4.30mm profile



BF088
2.00mm pitch
02 - 40 contacts
2.00mm profile



BG140
2.54mm pitch
04 - 80 contacts
5.95mm profile

Stacked Height Solutions for Multi-Level Designs



BD040
1.27mm pitch
06 - 66 contacts
Customer specifiable profile



BF146
2.00mm pitch
04 - 80 contacts
Customer specifiable profile



BG160
2.54mm pitch
04 - 80 contacts
Customer specifiable profile



BG090
2.54mm pitch
02 - 40 contacts
Customer specifiable profile

Engineered for Unique Board-to-Board Needs



Fine pitch board to board
connector for telematic project



Connector for
thermoelectric device



Round pin SMT header with
custom insulator and coining



Left and right-hand header with
integrated PCB location

Explore More Board to Board Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Board to Board range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



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Precision in Every Detail

Engineered Cable Assembly for Architectural Door Entry Systems

In applications where form is as critical as function, GCT delivered a flat, 35mm disc-style overmolded cable assembly — ideal for sleek wall-mounted door entry systems.

With strict requirements on thickness and cable exit geometry, the solution required precise control over tooling and molding processes to maintain flatness across the disc while minimizing cable protrusion.

A refined design — from mold to mount.



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FFC Cables & Connectors

Lightweight, Flexible, and Easy to Integrate

GCT's FFC cables and connectors provide lightweight, flexible interconnect solutions ideal for compact electronic assemblies.

Offering a space-saving design with easy installation, they support high-density PCB layouts in consumer electronics, medical devices, and automotive systems. Their flexibility and durability make them an efficient choice for applications requiring repeated motion or limited space.

① Lightweight, Flexible Interconnects

Ideal for dynamic applications requiring flexibility without compromising signal reliability.

② Space-Saving Designs

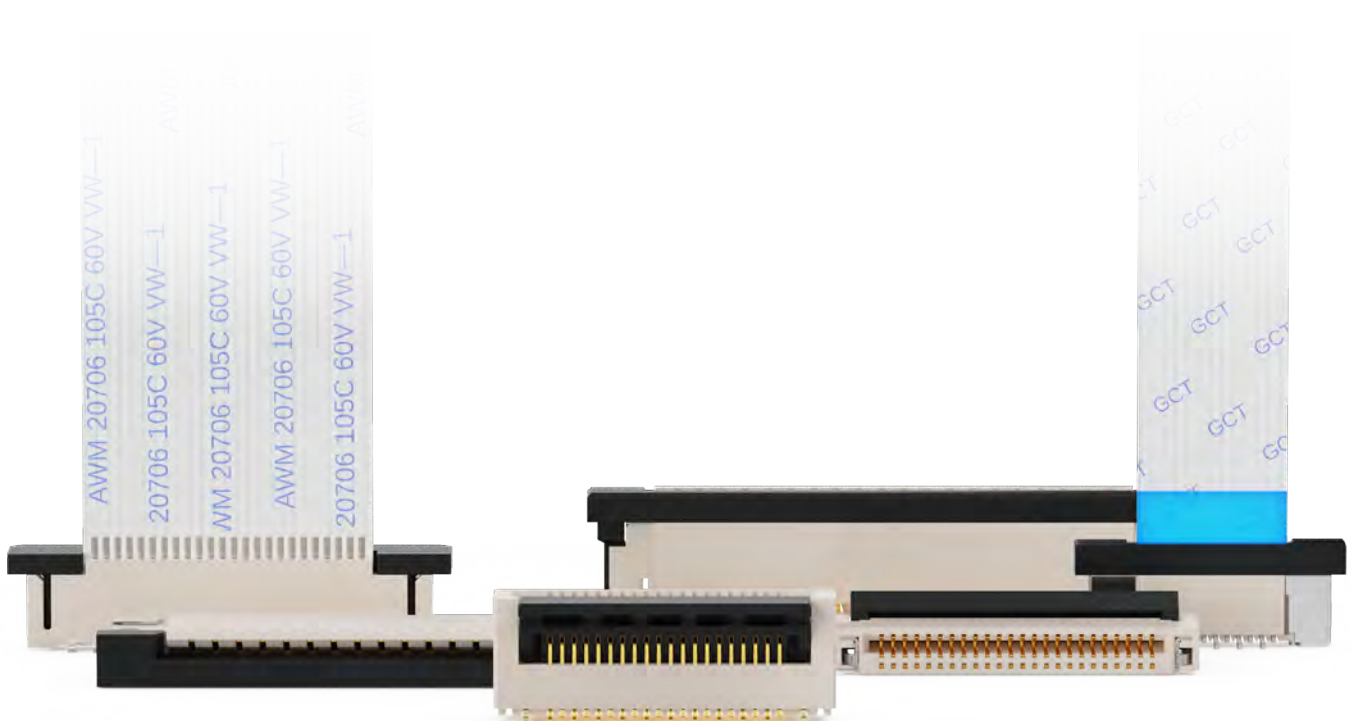
Slim cables and low-profile connectors maximize space in compact electronic assemblies.

③ Easy Assembly with ZIF Connectors

Simplifies installation with Zero Insertion Force connectors for quick and secure connections.

④ Durable in Repetitive Motion Applications

Maintains reliable performance in devices subjected to frequent bending or movement.



Flip Lock FFC Connectors for Quick Secure Termination



FFC2B28
Back Flip Lock
04 - 40 contacts
0.5mm pitch - 1.00mm profile



FFC2B35
Front Flip Lock
04 - 60 contacts
0.5mm pitch - 2.00mm profile



FFC2C05
Back Flip Lock
04 - 68 contacts
0.5mm pitch - 2.24mm profile



FFC2B29
Back Flip Lock
04 - 60 contacts
0.5mm pitch - 2.60mm profile

Slide Lock FFC Solutions with Lateral Actuation



FFC2A32
Top Entry Slide Lock
04 - 60 contacts
0.5mm pitch - 4.25mm profile



FFC2B16
Side Entry Slide Lock
04 - 40 contacts
0.5mm pitch - 2.00mm profile



FFC3A20
Top Entry Slide Lock
04 - 30 contacts
1.0mm pitch - 5.50mm profile



FFC3B07
Side Entry Slide Lock
04 - 40 contacts
1.0mm pitch - 2.50mm profile

Cable Options

A full range of FFC cable options to suit your design needs, including tin-plated, gold-plated, and shielded & grounded variants. Available in 0.50mm and 1.00mm pitches with UL20624 (-40 to +80 °C) and UL20706 (-40 to +105 °C) options. All configurations are ready to support a wide range of applications whether you're focused on cost, reliability, or signal protection.

Cable Type A — Conductor Same Side

Also known as Type 1, Type BD, or same side FFC



Cable Type D — Conductor Opposite Side

Also known as Type 2, Type AD, or opposite side FFC



Tin



Gold



Shielded & Grounded



Explore More FFC Solutions

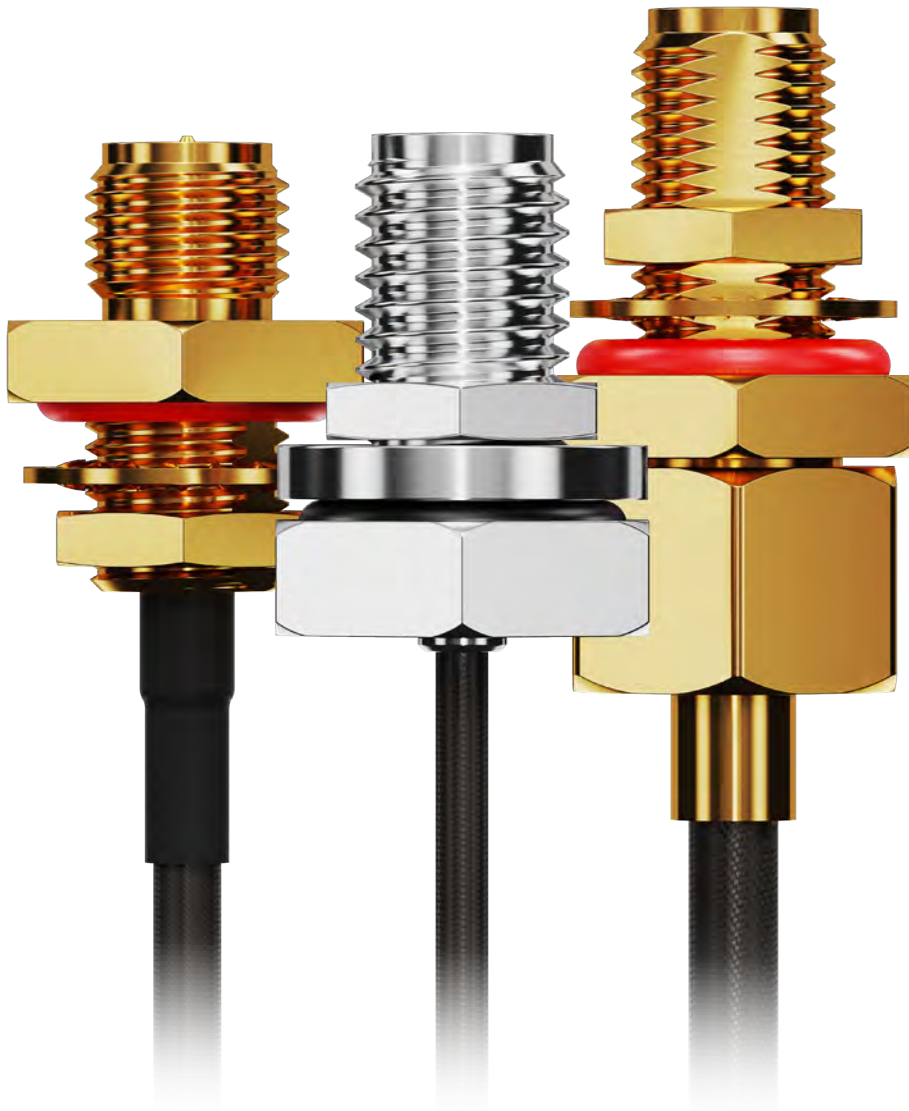
The featured parts are just a selection. **Scan or click the QR Code** to view the full FFC range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



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Cable Assembly Selector

Choose from a wide range of standard assemblies or create a bespoke solution using our intuitive cable selector — designed to simplify and streamline your design process.



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Connect. Disconnect.Repeat.

Rated at 20,000 mating cycles USB Type-C® Range



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SIM & Memory Card Connectors

Low-Profile, High-Reliability Data Solutions

GCT's SIM and memory card connectors offer low-profile, high-reliability solutions for secure data and identity storage.

Available in Push-Pull, Push-Push, and Hinged—they ensure dependable connection in mobile devices, tracking systems, IoT products, and industrial electronics where compact design and long-life operation are key.

① Low Profile, Compact Designs

Space-efficient connectors for slim devices and high-density PCB layouts.

② Multiple Ejector Mechanisms

Available in Push-Push, Push-Pull, and Hinged types for versatile card access and retention solutions.

③ Reliable Data and Power Contacts

Gold-plated contacts ensure stable electrical performance and long-term data retention.

④ Designed for Industrial and IoT Applications

Suitable for use in tracking systems, consumer electronics, and M2M communication devices.



Micro SD.Sockets with Minimal Stacking Height



MEM2085
1.15mm Profile
Push-Pull
5000 Mating Cycles



MEM2080
1.28mm Profile
Push-Push
5000 Mating Cycles

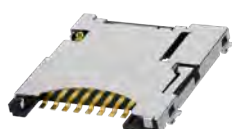


MEM2075
1.40mm Profile
Push-Push
5000 Mating Cycles



MEM2061
1.88mm Profile
Push-Push
5000 Mating Cycles

Built for Frequent Access and Mechanical Stability



MEM2090
10,000 Mating Cycles
1.45mm profile
Push-Push



MEM2052
10,000 Mating Cycles
1.95mm profile
Push-Push



MEM2067
Hinged
1.80mm profile
5000 Mating Cycles

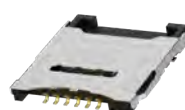
Flexible Insertion Types for SIM Integration



SIM8066
Push-Push
Nano
6 contacts



SIM7050
Push-Pull
Micro
6-8 contacts



SIM7200
Hinged
Micro
Vibration tested



SIM6050
Dual Push-Pull
Mini
8x2 contacts

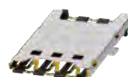
Space-Saving Connectors with Minimal Height



SIM8070
1.10mm Profile
Push-Pull
Without switch



SIM8055
1.35mm Profile
Push-Pull
With switch



SIM8051
1.35mm Profile
Push-Pull
Without switch



SIM7155
1.43mm Profile
Push-Push
With switch

Explore More SIM Solutions

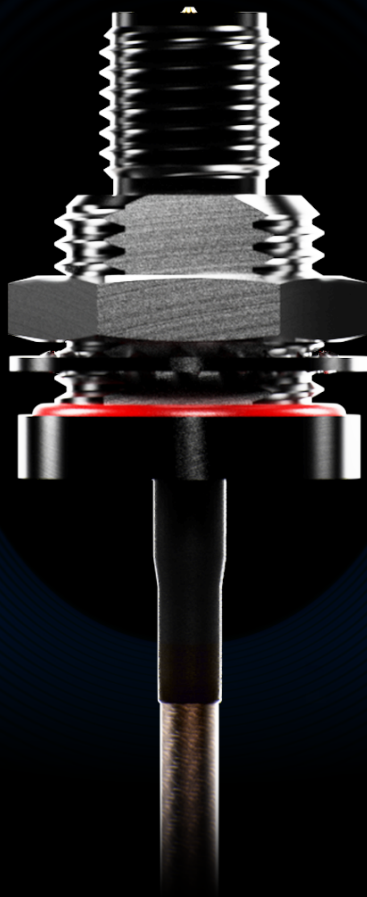
The featured parts are just a selection. **Scan or click the QR Code** to view the full SIM range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



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ISOLATED.

Containing electromagnetic emissions within a shielded enclosure,
preventing them from radiating outward and interfering



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Terminal Blocks

Secure, Efficient Wire-to-Board Connections

Engineered for reliable wire-to-board connections, GCT terminal blocks feature secure clamping mechanisms, supporting both screw and spring types. They ensure consistent electrical performance in industrial controls, power supplies, and building automation. Simple installation and robust construction deliver long-term dependability in harsh environments, reducing maintenance and downtime.

① Secure Wire-to-Board Connectivity

Provides reliable, vibration-resistant connections for industrial and building automation applications.

② Screw and Spring Clamp Options

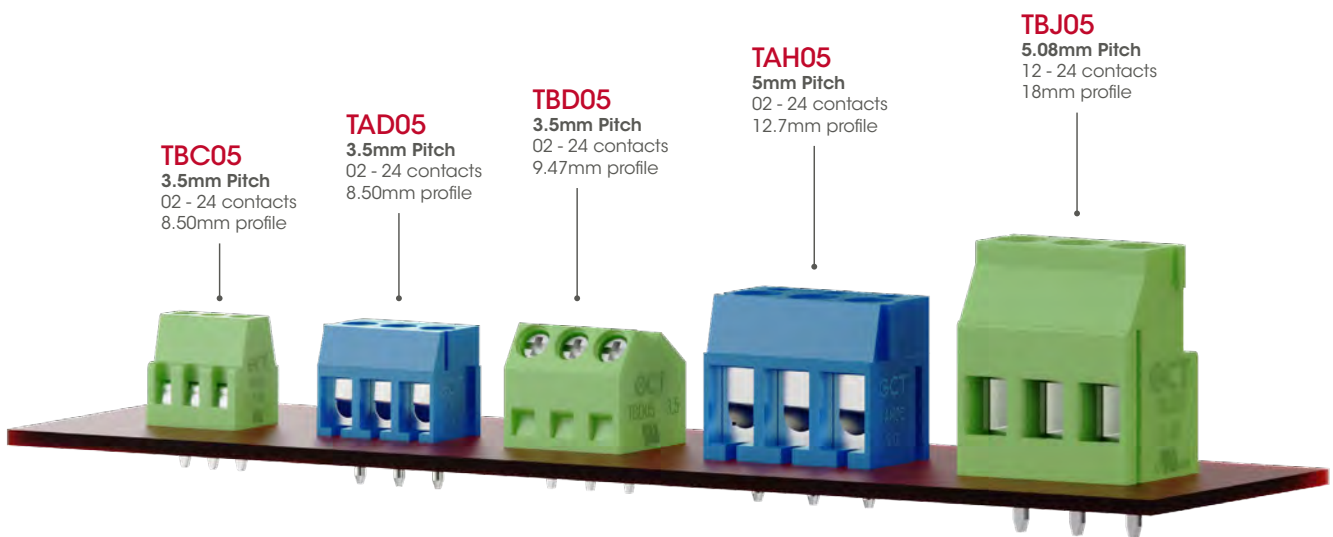
Versatile termination methods suited for different installation preferences and requirements.

③ Compact Footprint for High-Density PCBs

Efficient designs save space while maintaining strong mechanical and electrical integrity.

④ Robust Performance in Harsh Environments

Engineered for consistent operation in industrial and outdoor settings.



Explore More Terminal Block Solutions

The featured parts are just a selection. **Scan or click the QR Code** to view the full Terminal Block range with technical drawings, CAD models, distributor stock, and additional resources to support your next design.



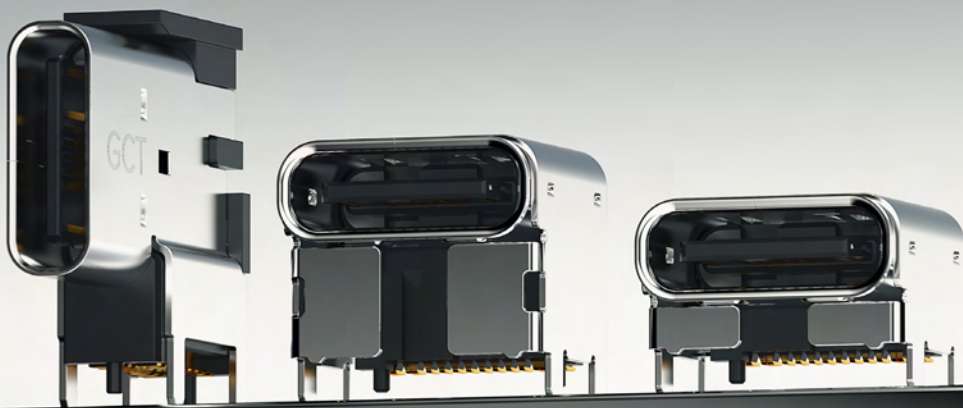
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For The Design-Conscious

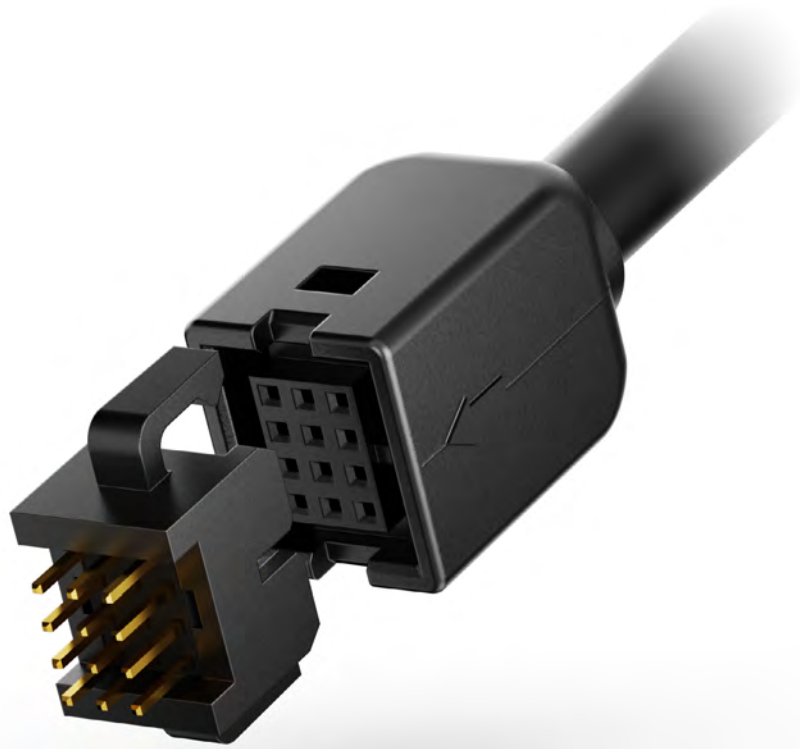
Reaching New Heights

Elevated USB-C Connectors for Perfect Port Alignment
Available in multiple elevated profiles — 5.38mm (USB4800), 7.78mm (USB4805), and
12.5mm (Flag Type USB4205) for streamlined layouts.

Simplify your I/O design without compromise.



SCAN OR CLICK QR CODE



Engineered for Tightest Spaces

Custom Cable & Connector Pairing for Smart Door Entry Systems

To meet strict installation constraints, GCT designed a super-flexible, 11-conductor shielded cable and a compact PCB header optimized for flow soldering and potting. The assembly features tool-free latching, built-in low-pressure ingress protection, and materials selected for heat resistance and mechanical flexibility — without relying on O-rings or grommets.

A tailored solution from concept to connection — built to spec, built to perform.



SCAN OR CLICK QR CODE TO ENQUIRE

Why GCT?

With over 40 years of experience, GCT is a leading provider of high-quality connector and cable assembly solutions. Our commitment to innovation, reliability, and customer support makes us a trusted partner for engineers worldwide. Whether you need a standard off-the-shelf product or a fully customized solution, we provide expert technical guidance and flexible manufacturing to ensure your design requirements are met.



Comprehensive Product Portfolio

A wide selection of connectors designed for power, signal, and data applications.



Customer-First Approach

Fast response times, proactive support, and tailored solutions to fit unique application needs.



Engineering Expertise

Our specialists assist from concept to production, helping optimize performance and efficiency.



Quality & Compliance

Stringent testing and adherence to global standards ensure reliability across industries.

Global Presence & Distribution Coverage

GCT's worldwide footprint ensures fast service, efficient logistics, and localized support to meet the demands of a global market.

Regional Offices & Engineering Support — Our teams in North America, Europe, and Asia provide responsive assistance throughout your design cycle.

Global Distribution Network — Our network includes leading Global Broadline and High Service partners, as well as select Regional distributors, ensuring product availability and rapid delivery worldwide.

Dedicated US Sales Representation — A strong network of GCT representatives offer local expertise and personalized support across the United States.

Seamless Supply Chain Solutions — Flexible production and inventory strategies help reduce lead times and support high-volume production.

Key Industries Served

GCT products are designed to perform in a wide range of industries, powering critical applications where reliability, efficiency, and durability are essential.

Consumer Electronics & Wearables

Compact, lightweight, and high-density connectors tailored for modern devices, including smartwatches, wireless earbuds, and handheld electronics.

Military & Defense

Robust interconnects built to withstand extreme conditions, ensuring mission-critical performance in defense, aerospace, and tactical applications.

Agricultural Technology (AgTech)

Reliable, high-performance connections for precision farming, smart irrigation, and automated equipment in agricultural applications.

Industrial Automation

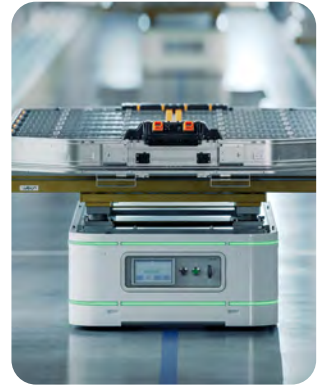
Durable connectors that power robotics, sensors, and control systems for factory automation and smart manufacturing.

Medical Devices

High-reliability interconnects for diagnostic equipment, patient monitoring, and portable medical devices where performance is crucial.

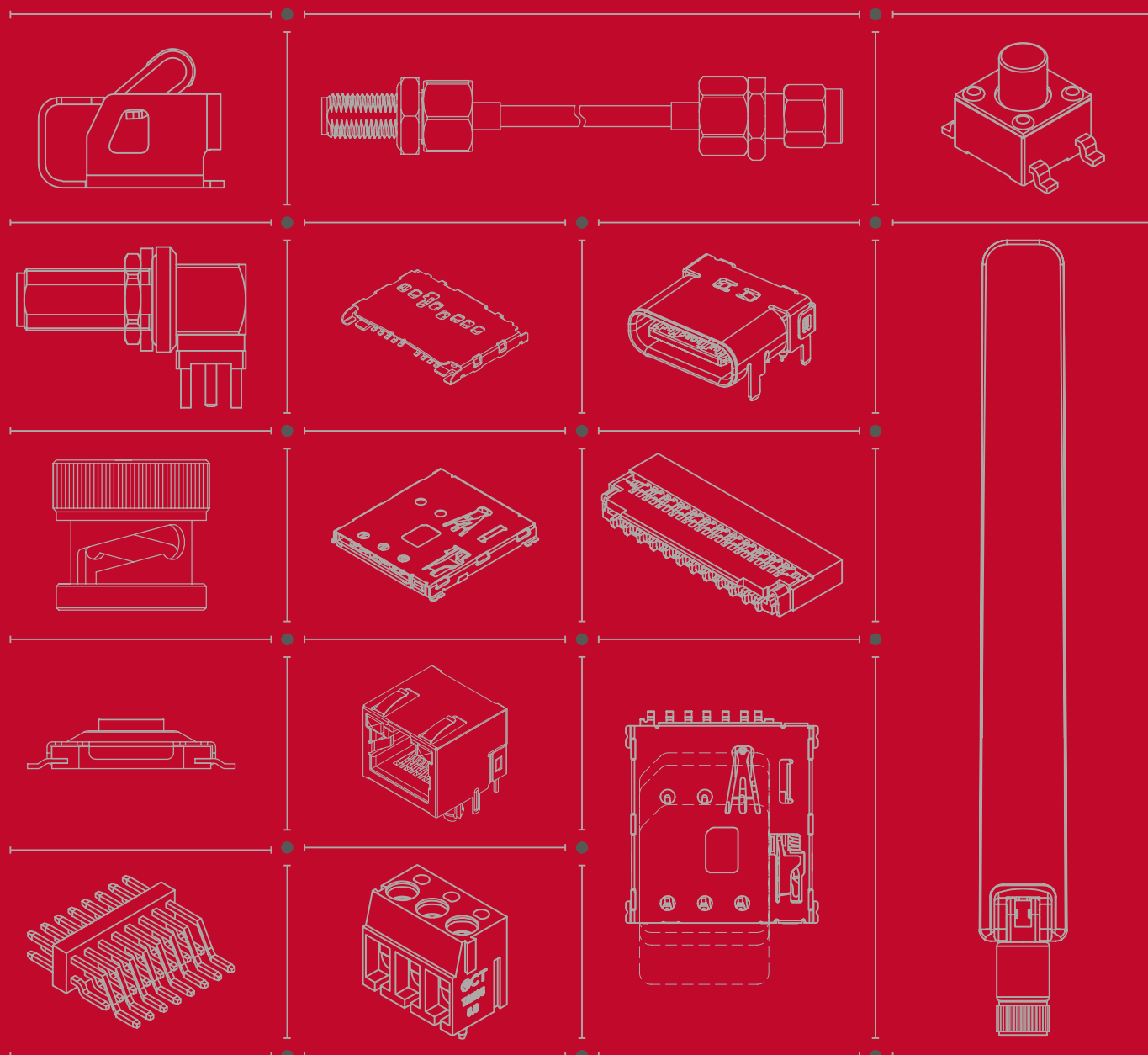
IoT Applications

Connectivity solutions that enable smart homes, smart cities, and connected industrial applications through reliable data transmission.



Scan the QR Code to view our full list of representatives and distributors in your area on the GCT website ►





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