iOnex

Connectors for Charging Applications

GCT

Vital Stats

Introducing the *ionex*® range from **GCT.** USB Type-C connectors specifically aimed for **power charging** designs.

The connectors are based on a modified 16 pin configuration giving it the full charge capabilities of Type-C with streamlined USB2.0 functionality. Fewer pins means a price point closer to that of Micro USB, making Type-C more accessible than ever and a real option for engineers to design into charging and docking applications.

Contacts

16

Double-Layer Shell

Stainless Steel

Operating Temp.
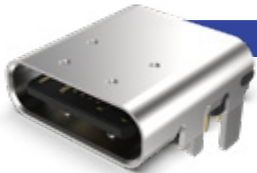
-40 to +85°C

Mating Cycles

10,000

Specification

USB 2.0

gct.co/charging-connectors

ionex Range

USB4085 - Through-Hole

- USB Type-C, USB 2.0 Horizontal Receptacle
- Single-piece injection molded stainless steel shell
- 3.46mm profile above PCB, Top mount, Through-Hole mount
- 4 Through-Hole shell stakes, 16 Through-Hole solder tails

USB4110 - Surface Mount

- USB Type-C, USB 2.0 Horizontal Receptacle
- Single-piece injection molded stainless steel shell
- 3.26mm profile above PCB, Top mount, SMT mount
- 4 Surface Mount shell tabs, 16 SMT solder tails

USB4105 - Hybrid · Coming Soon

- USB Type-C, USB 2.0 Horizontal Receptacle
- Single-piece injection molded stainless steel shell
- 3.31mm profile above PCB, Top mount, Hybrid mount
- 4 Through-Hole shell tabs, 16 SMT solder tails

USB4085 Key Specs

The first in the *ionex®* range - **USB4085** - is a horizontal top-mount USB Type-C connector with 16 through-hole solder tails and 4 through-hole shell stakes. This allows for a superior connection to the circuit board and stability during soldering.
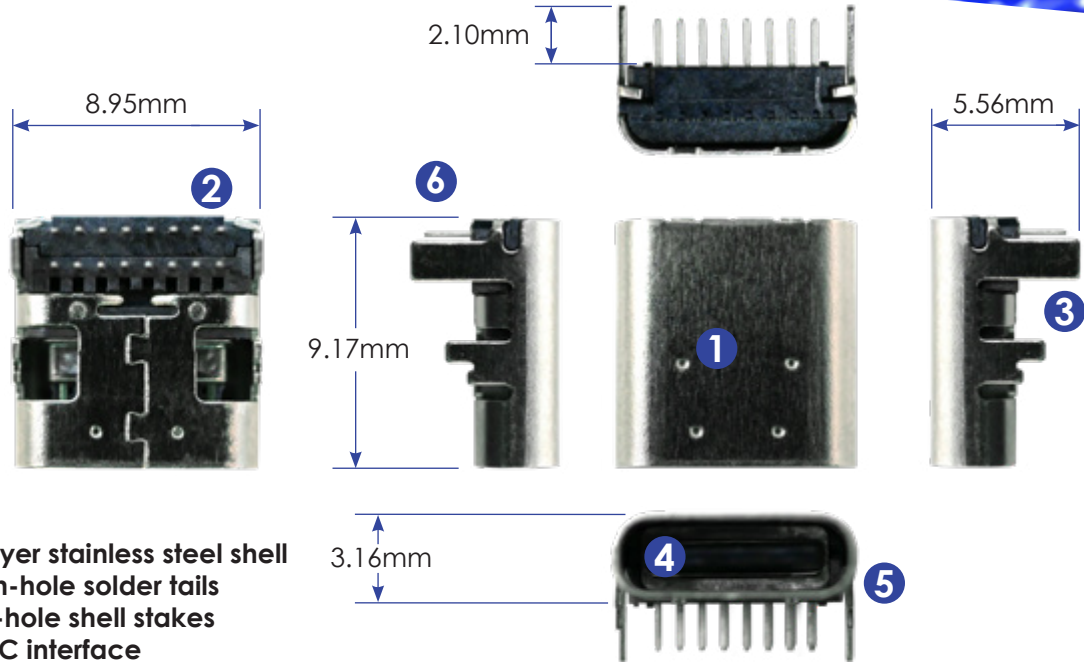
- Complies to USB standard 2.0
- Super fast charging
- Cost saving thanks to fewer contacts

16 Pin Design

- V_{BUS} 3A (A1, A4, A9, A12, B1, B9, B4, B12)
- V Conn 1.25A (B5, A8)
- Ground 4.25A (A1, A12, B1, B12)
- others 0.25A

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USB4085 Key Dimensions

8.95mm

2

6

2.10mm

5.56mm

9.17mm

1

3

3.16mm

4

5

1. **Double-layer stainless steel shell**
2. **16 through-hole solder tails**
3. **4 through-hole shell stakes**
4. **USB Type-C interface**
5. **10,000 mating cycles**
6. **Overall depth of less than 10mm**

USB4110 Key Specs

The second in the *ionex®* range - *USB4110* - is a horizontal top-mount USB Type-C connector with 16 surface mount solder tails, 4 surface mount shell tabs and 2 locating pegs moulded into the insulator. This allows for easy integration into a cheaper, surfact-mount only board design.
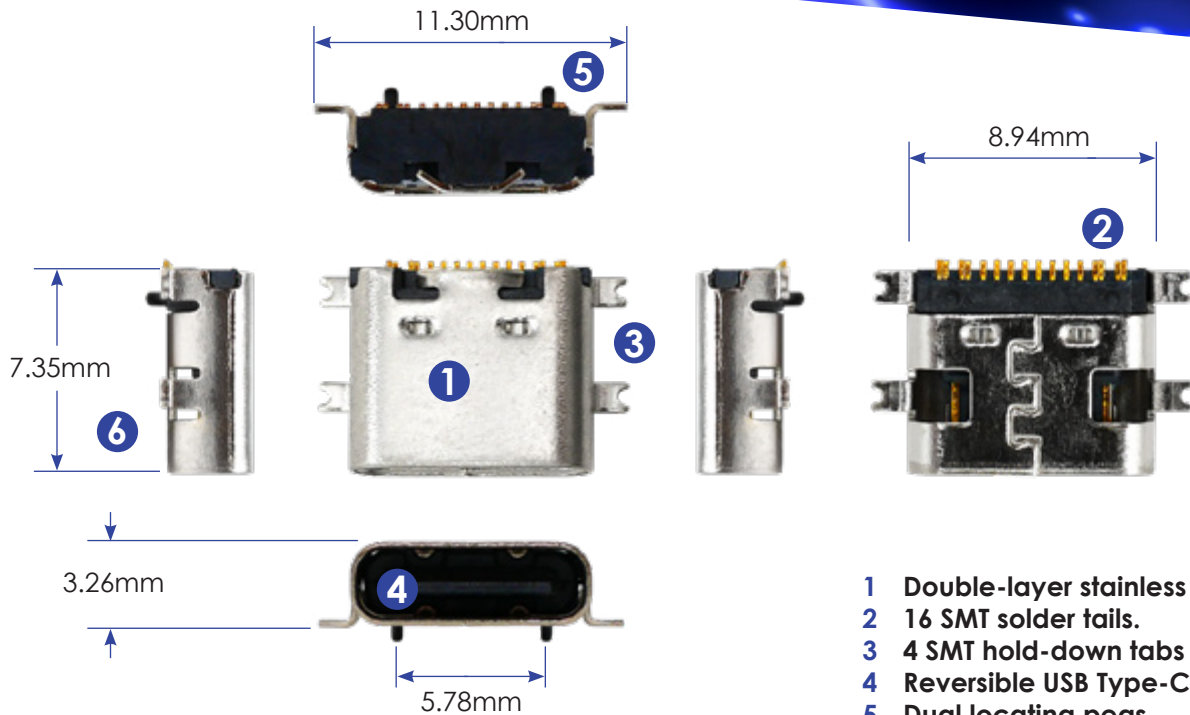

- Complies to USB standard 2.0
- Super fast charging
- Cost saving thanks to fewer contacts

16 Pin Design
- V_{BUS} 3A (A1, A4, A9, A12, B1, B9, B4, B12)
- V Conn 1.25A (B5, A8)
- Ground 4.25A (A1, A12, B1, B12)
- others 0.25A

gct.co/connector/usb4110

USB4110 Key Dimensions

11.30mm

5

8.94mm

2

7.35mm

6

1

3

3.26mm

4

5.78mm

1   Double-layer stainless steel shell
2   16 SMT solder tails.
3   4 SMT hold-down tabs
4   Reversible USB Type-C interface
5   Dual locating pegs
6   Overall depth of less than 7.5mm

Website

GCT

Technical Documentation
Detailed Product Drawings | Specification & Testing Documents

3D CAD Model & PCB Footprint Downloads
Configure & download any GCT part in seconds | Universal & software-specific file types

Quick Quoting & Express Sampling
Online Part Number Builder | Live Chat with our Experts | 72 hour Sampling on Select Ranges

Custom Connector & Cable Assembly Capabilities
Bespoke Designs from Idea to Reality | Overmolded, IDC & Crimp Cable Assembly Options

Local Support with a Global Footprint
GCT Locations in Europe, the Americas, and Asia | Worldwide Distribution Partners

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