ionex

USB Connectors for Charging Applications

GCT

Available at Digi-Key ELECTRONICS

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

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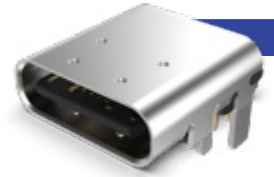
ionex Range



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.

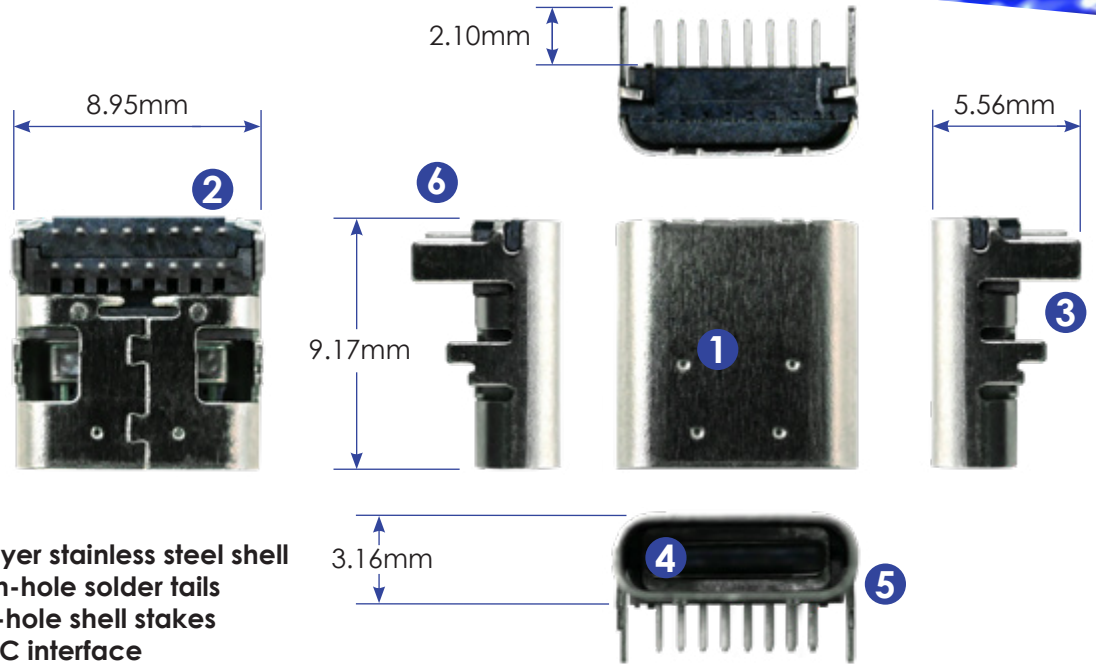
- Complies to USB standard 2.0
- Super fast charging
- Cost saving thanks to fewer contacts

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

View USB4085 at Digi-Key

USB4085 Key Dimensions



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.

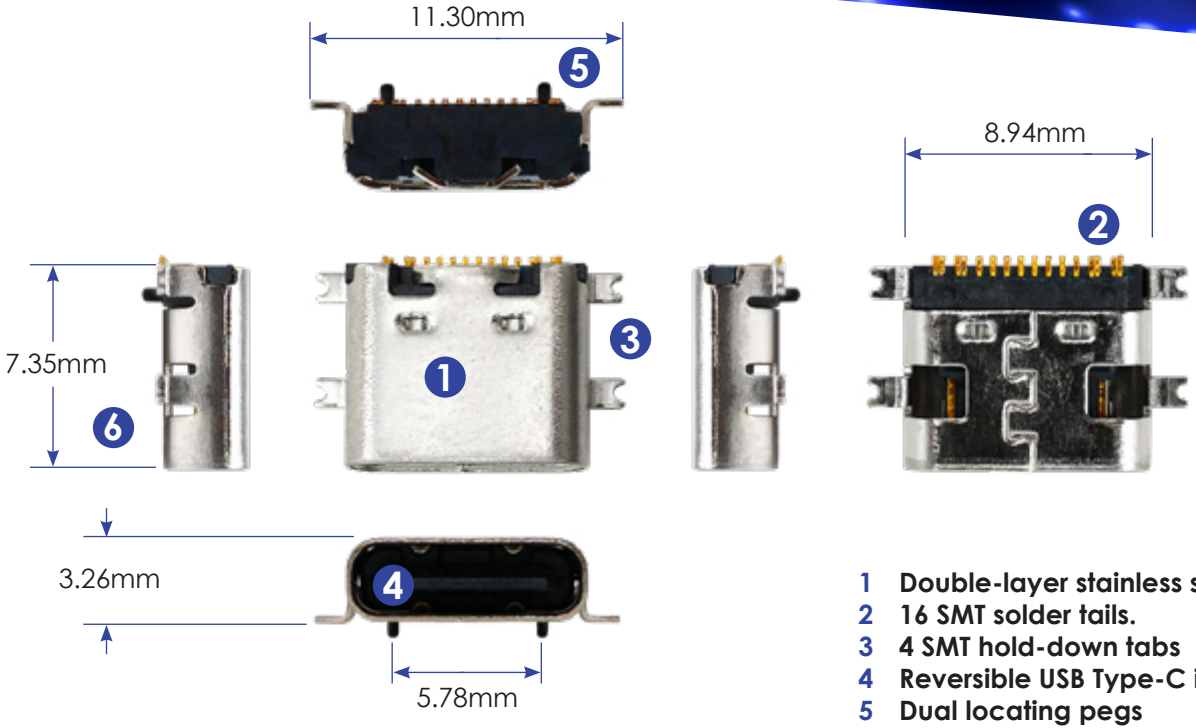
- Complies to USB standard 2.0
- Super fast charging
- Cost saving thanks to fewer contacts

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

View USB4110 at Digikey

USB4110 Key Dimensions



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

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Technical Drawing & Documentation

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