USB-C Connector Solution
USB-C

Benefits

• Support USB 2.0, USB 3.2 Gen 1, USB 3.2 Gen 2, and USB 3.2 Gen 2X2.
• IPX7/IPX8 waterproof options available.
• Deliver power up to 100W at 20V.
• Backward compatible to other USB connectors using converter cable or adaptor,
Engineer Capability

Solution & Application

Computer Aided Engineering & Verification

AE/EE

CKT Design

Validation & FATP

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Engineer Capability

Component Development

Component Validation

Sub_System Design

PCB Design

Raw Cable Development

Cable Process

Passive Active

B.C.E. ELECTRONICS
Engineer Capability

Connector under test

Test fixture design
• Layout design
• Verified by simulation

Build PCB

Fixture development

Time domain measurement

Frequency domain measurement

Time-Domain Reflectometer (TDR)
• Impedance profile
• Crosstalk
• Eye-pattern

Vector Network Analyzer (VNA)
• Insertion / Return Loss
• S-Parameters
Production Capability

China Factory_ Vertical Integrated

Stamping Department
Total 16 machines 50T~25T, KYORI, AIDA
For connector cable shield, terminals
Capacity: 112,752,000 pcs/Month

Machining Department
Simultaneously achieve over 80% in-house process for new tooling build normally. Can be 100% in-house when necessary to avoid long national holiday impact to schedule. (PG, Wire cutting, EDM,...)

Injection Department
Total 35 machines 50T~120T (FANUC, NIIGATA)
Include vertical machine for plastic parts and 30 cable molding machines. Monthly capacity: 24,888,685 pcs plastic parts, 5,252,000 pcs cables.

Auto-Machine Department
Connector and cable assembly, inspection process, apply to auto-machine for over 50 set of different auto-machines and almost all machine can be change code for various P/N product.
USB 3.2 Gen 2X2 receptacle

<table>
<thead>
<tr>
<th>Photo</th>
<th>Part No</th>
<th>Version</th>
<th>Contact Gender</th>
<th>Orientation</th>
<th>Pin No.</th>
<th>PCB mount</th>
<th>Height Above PCB (mm)</th>
<th>Length (mm)</th>
<th>GND Pin Length (mm)</th>
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<td>USB 3.2</td>
<td>Female</td>
<td>Right Angle</td>
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</table>
USB-C Gen 2 receptacle

(MJ8A8C-T080-40Q)

- **Material & Finish**
  - Housing Material: Nylon (Black)
  - Terminal Material: Copper Alloy

- **Performance**
  - Bandwidth: USB 3.2 Gen 2
  - Rated Current: 3A
USB-C Gen 2X2 receptacle

(MJ8E0 Series)

- **Material & Finish**
  - Housing Material: Nylon (Black)
  - Terminal Material: Copper Alloy

- **Performance**
  - Bandwidth: USB 3.2 Gen 2X2
  - Rated Current: 5A
Thank you!