

# DX07 Series USB Type-C Connector (Receptacle)

## USB Type-C Connector (Receptacle)

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The DX07 Series connectors are USB Type-C® compliant, and have become a popular standard interface for personal computers, smartphones, mobile devices, audiovisual equipment, and portable gaming devices.

[Click here](#) for information of PLUG

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Note) USB4®, USB Type-C® and USB-C® are trademarks of USB Implementers Forum, Inc.

Note) Thunderbolt™ is a trademark of Intel Corporation.

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## Features

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- Supports 240W (5A/48V) maximum power supply.  
(Compatible with USB Power Delivery Extended Power Range)
- Reversible plug orientation makes possible to insert both ways up.
- Lock structure with superior durability.
- Large selection of connector variations are available in DX07 Series
- SMT Contact Right Angle Receptacle  
2-row SMT type receptacle connector with a mounting area space-saving design.  
Compliant with Universal Serial Bus Type-C Specification Release 2.1  
Compatible with 10Gbps x2 (20Gbps) Super Speed communication. (USB 3.2)
- Waterproof Receptacle  
Mating compatible with USB Type-C  
Individually waterproof type. Waterproof performance rating of IPX7 or higher
- Hybrid Contact Receptacle  
Through-hole, SMT hybrid contact receptacle which allows for reworking of soldering area  
Compliant with USB Type-C Specification Release 2.1  
Compatible with 10Gbps x2 (20Gbps) Super Speed communication. (USB 3.2)
- Vertical Receptacle  
Vertical type receptacle ideal for monitors and other peripheral devices

Compliant with USB Type-C Specification Release 2.1

Compatible with 10Gbps x2 (20Gbps) Super Speed communication. (USB 3.2)

- 16-position Right Angle Receptacle

1 row SMT ideal for saving space to allow for the miniaturization of devices

Compliant with USB Type-C Specification Release 2.1

USB 2.0 (480Mbps)

- USB4® Right Angle Receptacle

USB4 40Gbps certified receptacle connectors

Compliant with Universal Serial Bus Type-C Specification Release 2.1

USB4 40Gbps (Gen 3) certified

Supports 240W (5A/48V) max. power supply.

(Compatible with USB Power Delivery Extended Power Range)

## Applications

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Smartphones, Tablets, PCs, Digital still cameras, Digital video cameras, Bluetooth earphones/headphones, VR/AR headset, Monitors, Hubs, Wall outlets, USB chargers, Printers, POS terminal, Power bank and others

## Documents

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### Links

- [Featured Content 02/17/2023 | USB4® Specification](#)
- [Featured Content 02/17/2023 | USB Type-C® Connectors DX07 Series](#)
- [White Papers 02/06/2023 | USB Type-C® Connector Solutions](#)
- [Product release 09/14/2022 | DX07 Series USB Type-C® Certified USB4® EPR Harness Capable of 40Gbps High Speed Transmission and 240W Power Supply](#)
- [Case Study 01/21/2022 | PC peripherals manufacturer Product Development Div](#)

### Catalog

- [DX07 Series Waterproof Receptacle](#)
- [DX07 Series Hybrid Contact Receptacle](#)
- [DX07 Series SMT Contact Right Angle Receptacle](#)
- [DX07 Series Vertical Receptacle](#)
- [DX07 Series 16-position Right Angle Receptacle](#)
- [USB Type-C® Compatible DX07 Series USB4® 40Gbps Right Angle Receptacle](#)
- [Industrial Connectors Selection Guides](#)

## General Specifications

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<b>Number of Contacts</b>	16, 24 pos.
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<b>Rated Current</b>	$V_{BUS}$ (Terminal No. A4, A9, B4, B9) DC 5 A (Total) GND (Terminal No. A1,A12,B1,B12) DC 6.25 A (Total) $V_{CONN}$ (Terminal No. B5) DC 1.25 A Others: DC 0.25 A/ pin
<b>Rated Voltage</b>	48 Vr.m.s.
<b>Contact Resistance</b>	40 milliohm max. (initial)
<b>Dielectric Withstanding Voltage</b>	AC 100 Vr.m.s. (for 1minute)
<b>Insulation Resistance</b>	100 megohm min. (initial)
<b>Durability Mating Cycles</b>	10,000 times
<b>Operating Temperature Range</b>	-40 deg. C to +85 deg. C Vertical Receptacle: -30 deg. C to +85 deg. C

#### **Notice**

1. The values specified in this web site are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products.  
For purchase, a product specification must be agreed upon.
2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
3. The products presented in this web site are designed for the uses recommended below.  
We strongly suggest you contact our sales staff when considering use

of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

\*Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster evention equipment, etc.

\*We may separately give you our support with a quality assurance program that

you specify, when you think of a use such as :

Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

\*Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc