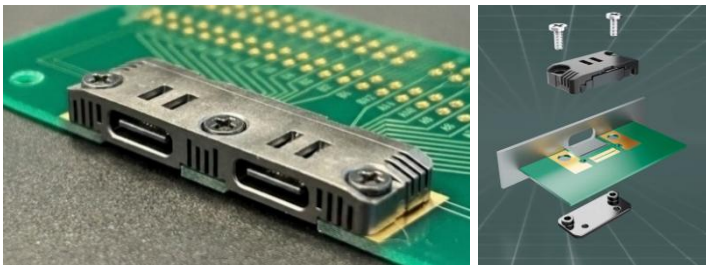
Marketing Bulletin

February 17, 2026 MB – 503

JAE Electronics, Inc. · 142 Technology Drive #100 Irvine, CA 92618 · Ph. (949) 753-2600 · www.jae.com

New Product Release:
Repairable DX07 Series USB Type-C® Receptacles



Global sustainability regulations such as the EU's Ecodesign for Sustainable Products Regulation (ESPR) and the French Repairability Index are transforming product design. Manufacturers now face a clear mandate: make devices easier to repair and reuse.

JAE's DX07 Series meets this challenge with repairable USB-C® receptacles. Unlike conventional SMT-mounted connectors, the Repairable DX07 can be replaced using just a screwdriver. The use of spring contacts on the bottom of the connector allows these USB Type-C ports to be electrically connected by only clamping the connector to the PCB with screws – no soldering or specialized tools required. This innovation helps OEMs improve repairability, reduce e-waste, and stay ahead of compliance requirements all without sacrificing high-speed performance and reliability.

Key Features:

- Solderless, screw-secured design
- Durable MIM shell for excellent impact resistance and long-term reliability
- Supports USB4® Gen4 (USB 80Gbps) signals
- Supports USB PD EPR power up to 240W
- Easily replaced by user with a basic tool

Ideal for manufacturers committed to sustainability, the repairable DX07 Series combines repairability, robustness, and high-speed performance in one connector.

Click here to watch a short video detailing the design of the Repairable DX07 Series.

For more details on JAE's Repairable DX07 Series, please visit this page on our website.

General Specifications

Number of Contacts	24 or 48
Contact Resistance	40 mΩ max (initial)
Dielectric Withstanding Voltage	100 V_{rms} (1 minute)
Insulation Resistance	100 MΩ (initial)
Durability	10,000 mating cycles (USB-C)
Operating Temperature Range	−40 °C to +85 °C
Rated Currents	V_{BUS} (Terminals A4, A9, B4, B9): 5 A DC total
	GND (Terminals A1, A12, B1, B12) 6.25 A DC total
	V_{CONN} (Terminal B5): 1.25 A DC
	Others: 0.25 A DC
Rated Voltage	48 V_{rms}

If you have any questions regarding this matter, please contact your JAE account manager.
Thank you for your cooperation.