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JAE Europe has introduced a 140-way board-to-board PCI Express connector, enabling embedded systems, copiers, medical equipment and other applications to benefit from multi-Gigabit, multi-channel serial communications.

The WB4 series comprises right-angle connectors enabling horizontal mating of adjacent boards. The 0.5mm conductor pitch ensures a low footprint, to enable multi-channel interconnects within minimal board real-estate. The connectors are designed to close tolerances throughout, which results in precision matching between differential signal pairs as well as high signal integrity. Insertion loss is reduced to -5dB at 3.75GHz thanks to contact resistance below $100\text{m}\Omega$. Return loss is better than -4dB and cross-talk performance better than -26dB at 3.75Ghz.

Insulation resistance greater than $100\text{M}\Omega$ ensures compliance with all applicable user-protection standards, and the connectors also exceed 200Vrms per minute dielectric withstand voltage.

The WB4 series connectors are also optimised for surface-mount assembly, with high coplanarity of electrical contacts and features to aid picking and alignment with automated placement equipment. Available connectors are specified over the extended temperature range from -40°C to $+85^\circ\text{C}$, to support designers seeking to use PCI Express in Industrial, Scientific and Medical (ISM) applications



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