

The next generation of automotive board edge connectors: High speed with 314 contacts for MXM applications

Munich, September 2018 – Yamaichi Electronics has extended its MXM family for automotive and other demanding applications with a 314-pin variant. The success story for the board edge connector (BEC) developed and tested specifically for automotive applications began about six years ago: the BECs were the first connectors for modules meeting the MXM and Qseven standards with 230 pins and a 0.5mm pitch. In 2013 a 230-pin high-speed version of the BEC for applications to 5 Gbps was premiered.

To meet the requirements of MXM3.0, Yamaichi now offers a 314-pin variant alongside the 230-pin high-speed version. Applications with an increased need for high-speed signal contacts are thus also accommodated.

Yamaichi draws on a proven design for this. For example, the contacts have the characteristics needed to ensure a stable contact force even when subject to vibrations and shock. The spring characteristic of the contacts also permits tolerance compensation and reliable data transmission if modules with dimensions close to the tolerance limits are used.

A new feature is the extended function of the module's side screw fitting. The tabs on the screw fitting can be folded out to facilitate insertion of the PCB. Following module assembly the tabs are returned to their original positions and screwed from

above to the module and the connector. Thus the module is securely fastened to withstand vibrations and shock.

The enlarged SMT tabs are used for the ground connection and for the SMT connection – along with the 314 contacts – to the motherboard.

Yamaichi has thus managed to combine 314 high-speed contacts and robustness in a single system.

The connector is currently available with a 0.1 µm-thick gold plating in the contact area. It is packaged and delivered in T&R. Production is nearly exclusively automated.

About Yamaichi Electronics

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems. Their reliability and functional dependability are absolutely essential for the success of the overall project. Yamaichi Electronics established themselves on the world market very quickly as a manufacturer of high-quality, reliable components for demanding applications in various markets and applications: semiconductor, industrial automation, automotive, data networking, measurement & testing, medical, mobile computing, embedded computing, and others.

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