

New PICMG 2.30 Standard Names 3M Ultra Hard Metric (UHM) Socket Connector as the High-Speed J2 Connector

3M connector enables speeds greater than 7 Gbps in legacy systems

The PCI Industrial Computer Manufacturers Group (PICMG) recently ratified the new PICMG 2.30 CompactPCI Plus IO standard, specifying the fully shielded Ultra Hard Metric (UHM) Socket Connector from 3M as the high-speed J2 connector.

The new PICMG 2.30 specification adds PCI Express, Ethernet, SATA, SAS and USB extensions to the CompactPCI family of specifications while preserving PCI bus connectivity and backward compatibility. The specification defines the use of previously reserved rear I/O pins for the 32-bit CompactPCI system slot with new high-speed serial signals to preserve interoperability with existing CompactPCI standards.

The UHM socket connector from 3M, in its J2 configuration, was specified for the new standard due to its signal transmission quality and backward compatibility. The UHM socket connector allows end users of CompactPCI equipment to leverage their existing investment in PCI bus cards while using the same system for newer, high-speed serial data applications.

The “virtual coaxial box” shielding technology from 3M dramatically reduces the severe crosstalk commonly experienced by 2 mm hard-metric connectors at 1 to 1.5 Gbps speeds, enabling the UHM socket connectors from 3M to achieve speeds greater than 7 Gbps. The 3M [UHM socket connector](#) is designed to mate with industry-standard and widely available 2 mm hard-metric header connectors (IEC 61076-4-101).

The UHM socket connector is available in 5-row (A, B, CL, CR, AB) and 8-row (D, E, DE, FL, FR) form factors allowing a very high signal density – 101 signals per linear inch for the 8-row and 63 signals per linear inch for the 5-row.

Reasonable and Non-Discriminatory (RAND) licensing for claims in 3M’s patents and patent applications that are necessary to implement the new PICMG 2.30 Compact PCI PlusIO standard is available immediately. A copy of the license may be obtained under a Confidential Disclosure Agreement from the 3M Electronic Solutions Division by calling 512-984-6399.

About 3M Electronic Solutions Division

3M Electronics Solutions Division offers innovative solutions to the electronics market, such as static control products; copper interconnect systems; cables and cable assemblies; carrier and cover tapes and trays; flexible circuits; embedded capacitor materials; and Textool brand test and burn-in sockets. For more information on interconnect solutions available from the 3M Electronic Solutions Division, visit www.3m.com/UHM.

More information about 3M Company, available [online](#).

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