

THE WORLD'S FIRST MIL-STD-1553 M.2 CARD

Rugged embedded computers have been in use for many years in aerospace applications. The challenge has always been to provide the necessary capabilities and features in a package that minimizes size, weight and power. To incorporate avionics busses such as MIL-STD-1553 and ARINC429 manufacturers of these products historically have created custom solutions using components that increase development and life cycle maintenance costs.

The need for smaller form factors has driven the industry towards Mini PCIe (mPCIe) form factors that was adopted from consumer laptops due to its small size and direct interface into a PCIe bus.

M.2 is a next generation slot that has been replacing mPCIe as the de facto standard on laptops. It has been used predominately for SSD's but usage has expanded to many other functions.

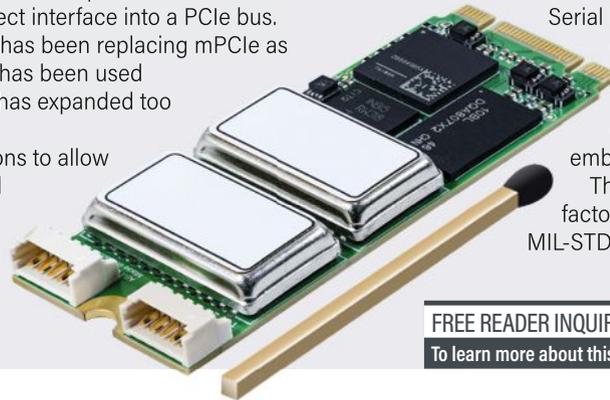
It also features different size options to allow for expandability of I/O and channel density. The introduction and acceptance of this new small form factor allows to the use of COTS and MOTS technology in rugged embedded applications.

With the introduction of the world's first MIL-STD-1553 M.2 card AIM has now given rugged computer designers all the advantages of this extremely compact form factor that allows them to produce the smallest, lightweight avionics systems while reducing development and full life cycle costs.

As the M.2 package continues to gain acceptance it is envisioned that small form factor system manufacturers will be able to use the slot for whatever the expansion requirement necessary such as MIL-STD-1553, ARINC429, Ethernet, CANBus, Serial IO, more storage, etc. without having to lay out components on a custom board.

AIM's introduction of this new rugged 2 channel MIL-STD-1553 M.2 card exhibits the company's dedication to the embedded databus market.

This is a great addition to AIM's small form factor line including mPCIe cards for MIL-STD-1553 and ARINC429. \\



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