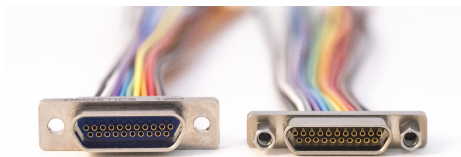


Low Profile Micro-D Connectors

Omnetics Low Profile Micro-D Connectors fit well with New Compact and Portable Electronic Modules

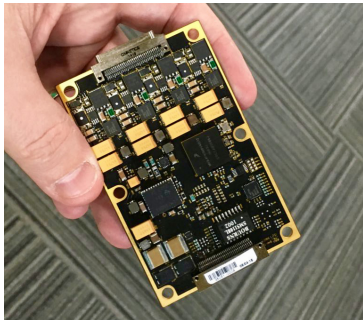
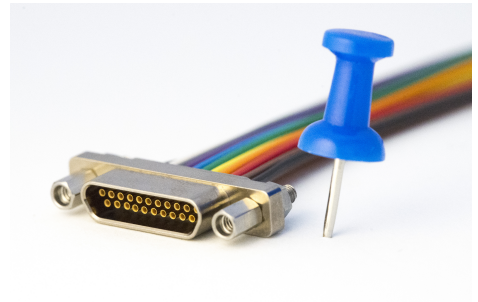


As circuit modules continue to evolve into more and more portable electronic systems, the “Total Circuit” itself must become smaller, lighter and lower profile without losing its overall rugged characteristics. These systems include portable Ethernet controllers, tri-mode seeker-heads, surveillance

modules, downhole monitoring electronics, and many others all searching for size reduction.

Markets all across the globe are focused on SWaP (size, weight, and power). In the defense world, designers are searching for newer componentry to usher in newer compact, smarter missile designs capable of protecting today’s modern warfighters. In the space world, the goal is similar:

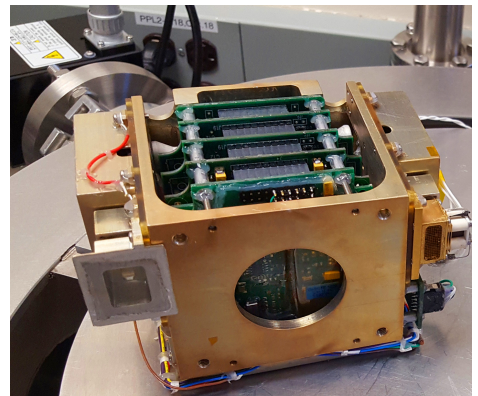
mass reduction. Companies such as NASA continue to focus on this requirement. Today, it is estimated to cost \$10,000 to put a single pound of payload in Earth's orbit. NASA's goal is to reduce the cost of getting to space to hundreds of dollars per pound within 25 years, and tens of dollars per pound within 40 years. With this goal in mind, these newer SWaP options must not only be smaller than their incumbent, they must also survive and thrive in some of the harshest environments.



Omnetics Connector Corporation offers their Low Profile ~Micro-D series for this market. This new connector type offers designers a savings of roughly 30% in height, while assuring users the same performance and reliability expected from previous MIL-DTL-83513 iterations. Omnetics' Low Profile Micro-D Connectors are ideal for critical, high-reliability industries, including aerospace, military, petroleum, and medical applications. These Low-Profile Micro-D

connectors are built to exceed the specifications of MIL-DTL-83513, while allowing designers the ability to squeeze more and more into less and less.

Low-profile connector types enable designers the ability to utilize board-stacking efforts. This allows for a fast design of each individual section of the instrumentation allowing for more components in a smaller form factor. Applications include hand-launched drones, portable robotic surveillance systems and cube satellites (image of a NASA weather satellite processor board to the right).



Omnetics' Low Profile Micro-D connectors offer the performance and reliability demanded by this industry niche and beyond. They are designed and manufactured using the identical pin to socket system, shell and insulator materials that pass MIL-DTL-83513. Pins are made of ruggedized BeCu copper alloy that ensure continuous signal performance through 50 gs of shock and 20 gs of vibration. Their performance has been tested and certified from -55 degrees Celsius to + 125 degrees Celsius. The low profile connector's height is significantly reduced by 30% to less than .208 inches high with some designs. Extensive detailed specifications (</products/micro-d/low-profile-micro-d>) are available.