

## No Room for Missed Connections in Aerospace Design

### Terms:

Newark element14 Product Manager Rob Toenies discusses why he believe connectors must be a central focus and concern for today's design engineers

As the building blocks of today's network-centric and data-intensive systems and devices, connectors play a critically important role providing reliable and safe functioning for a variety of markets, including aerospace. In a recent ConnectorSpecifier.com article, Rob Toenies, product manager, [Newark element14](#) [1], shares insights into the bandwidth considerations and size, weight and power (SWaP) requirements design engineers must take into account when specifying connectors that can stand up to the stresses of flight. [Newark element14](#), [2] is a business of the global Premier Farnell Group, which is owned by Avnet.

He wrote: *"In the military/aerospace and commercial aerospace sectors, connectors are invaluable to applications related to avionics, control systems, grounding systems, propulsion, weapons and munitions, and even in-flight entertainment. Regardless of the context, interconnect products enable these diverse systems to stay connected and running. While practically everything today uses circuitry or circuit boards, which in turn use connectors to link the various modules, connectors play a vital part in ensuring the reliability, ruggedness, and performance of a system.*

*Many of us work indoors in moderate and controlled conditions, so the devices and appliances around us lead comfortable and moderately unstressful lives. However, most of the electrical and electronic systems and machinery that make our lives run smoothly must operate in harsh conditions, exposed to the elements of nature. When we are considering air transportation, for example, there is no margin for error. These systems must function under conditions that include extremes of temperature, dust, water, and rapidly shifting air pressure. Because of these critical demands, architects and integrators of aerospace and defense systems have to weigh many requirements and considerations when they are selecting the right connectors for the job at hand."*

To read Rob's complete article, please go to <http://www.connectorsupplier.com/choosing-connectors-mil-aero-defense-applications/> [3].

For more information on connectivity solutions and services from Avnet, visit our Interconnect portal at <https://www.avnet.com/wps/portal/us/solutions/technologies/interconnect/> [4].

Visit <http://www.newark.com/c/connectors> [5] to browse Newark Element 14's huge selection of more than 840,000 connectors, including HDMI, PCB, RJ45, RJ11, fiber optic, board-to-board connectors, wire-to-board connectors, cable connectors, electric connectors, 3.5mm jacks and many more.

### Multimedia

#### Preview Image:



### Language:

English

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[1] <http://www.newark.com/>

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