

## Omnetics Miniature Connection News      December, 2007

Applications and Insights on our products, our customized business and capabilities.

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**Omnetics Connector Corporation has added CubeSat** to its long list of connector applications. The CubeSat Project is an international collaboration of over 60 universities, high schools, and private firms developing pico satellites containing scientific, private, and government payloads. The CubeSat Project was developed by California Polytechnic State University, San Luis Obispo and Stanford University's Space Systems Development Lab. The CubeSat program creates launch opportunities for universities previously unable to access space. A CubeSat is a (10x10x10) centimeters cube with a mass of up to 1 kg. Developers benefit from the sharing of information within the community and by communicating directly with other developers and attending CubeSat workshops.



**Why Omnetics?** CubeSat customers currently use both the nano dual row and dual row Bi-Lobe. The nano dual row conforms to Mil-DTL-83513 and the Bi-Lobe to MIL-DTL-32139. Low out-gassing is a main requirement along with high density along with low weight and volume. Low mass and use of retention screws also enables low shock resistance.

**Current CubeSat customers** of Omnetics Connectors are ILR-Technical University in Berlin and EPFL (Swiss Federal Institute of Technology) which has developed the SwissCube. The SwissCube is being built to observe and taking measurements of airglow phenomena, or photoluminescence of the atmosphere at 100 km altitude.



**The anticipated launch** of SwissCube is in 2008. After much testing of the electrical and mechanical interfaces between PCBs the Swiss Cube project engineers determined in order to connect the external faces with the interior PCBs they will use a nano dual row surface mount along with pre-wired mate.



**View more information** on the SwissCube project at <http://swisscube.epfl.ch>

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