

Space-Related Conferences And Trade Shows In 2018

Space applications represent a distinct set of applications for power supplies, dc-dc converters, battery chargers and related power products. These space-grade power converters must meet specific electrical, mechanical, and environmental requirements including radiation hardness.

Industry conferences and tradeshow devoted to space technologies present special opportunities for power supply and power component vendors to market products specifically developed for space applications. Conversely, for designers of space equipment and systems, these events may offer opportunities to learn about the latest power products and interact with vendors.

This list of selected conferences and tradeshow identifies some of the events in 2018 where suppliers and users of power converters and power components for space may meet. Events where power supply and power component companies appear on the exhibitors' list are noted. Some of these events may also offer technical sessions addressing issues relevant to power system design.

February:

[Smallsat Symposium](#)

Business and Finance Conference for Small Satellites

February 5-8, 2018

Computer History Museum

Mountain View, CA

[Microelectronics Reliability & Qualification Working Meeting](#)

Feb 6-8, 2018

The Aerospace Corp.

El Segundo, Calif.

Notes: Includes presentations on "Thermal Characterization of GaN Electronics," "Safe Operation of Schottky Diodes in a Heavy-Ion Environment," "Strategic Radiation Hardened High Voltage Analog and Dwindling US Supplier Base - Options?" "Getting SiC Power Devices Off the Ground: Design, Testing, and Overcoming Radiation Threats" and "Grounds-up design improvements for new RHBD monolithic Point-of-Load (POL) Converter," "Space Qualification of GaN HEMTs - Guidance Document Announcement," "Voltage-Stress Induced Defects in AlGaIn/GaN HEMTs" and "Insuring Gate Oxide Reliability of CMOS, BCD, and Discrete MOSFET/IGBT Products".

[Canadian SmallSat Conference](#)

Feb 13-15, 2018

The Westin Prince

Toronto, Ontario, Canada

March:

[IEEE Aerospace Conference](#)

March 3-10, 2018

Yellowstone Conference Center

Big Sky, Montana

Notes: Conference track 7 "Avionics and Electronics for Space Applications" includes Session 7.05 "Power Electronics for Space Applications...[which] explores advanced power electronics designs and systems for space applications. Example topics include: power devices; power electronics; electro-magnetic devices; photo-voltaic modules; and power systems. Papers discuss technical aspects of power electronics including extreme thermal and power requirements, efficiency and power management, tolerance to space environments, and reliability."

[Satellite](#)

Conference and Exhibition

March 12-15, 2018

Walter E. Washington Convention Center

Washington, D.C.

[GOMACTech Conference](#)

Government Microcircuit Applications & Critical Technology Conference

Technologies for Secure Spectrum Access from DC to Light

March 12-15, 2018

Miami, FL

Notes: Technical topics include "radiation hardened technologies, designs & systems" and "power electronics & emerging power technologies". Exhibition includes semiconductor suppliers.

[Paris Space Week](#)

International space business meeting

March 28-29, 2018

Paris, France

April:

[Space Parts Working Group](#)

April 10-11, 2018

Doubletree by Hilton Torrance-South Bay

Torrance, CA

[Space Symposium](#)

April 16-19, 2018

The Broadmoor Hotel

Colorado Springs, CO

Exhibition includes electronic component companies.

[Space Power Workshop](#)

April 23-26, 2018

The Renaissance Hotel

Los Angeles, CA

Notes: Sessions include "Energy Generation I Multijunction Solar Cells," "Energy Storage I Space Battery Level Topics," "Energy Generation II Modules and Arrays Design," "Power Systems Architecture," "Advanced Concepts," "Energy Storage II Cell Level Developments for Energy Storage," "Energy Generation III Reliability and Characterization," "Energy Storage III Advanced Energy Storage Concepts," and "Power System Design and Analytical Techniques."

[AUVSI Xponential](#)

All Things Unmanned

April 30-May 3, 2018

Colorado Convention Center

Denver, CO

May:

[CMSE](#)

Components for Military and Space Electronics Conference and Exhibition

May 7-10, 2018

Sheraton Four Points Hotel (LAX)

Los Angeles, CA

Notes: "Event focused on the design, reliability, and application of electronic components for use in avionics, aerospace, military & commercial space systems." Includes tutorial on "Passive Components and Integration for Power and RF Modules." Presentations include "Specialized Design and Verification Methods Break Performance Limits of Catalog Magnetics." See more of the program [here](#).

[Space Tech Expo](#)

May 22-24, 2018

Pasadena, CA

Notes: Exhibit includes passive, magnetic and semiconductor component suppliers.

[4S Symposium](#)

May 28- June 1, 2018

Sorrento, Italy

Notes: Includes CubeSat workshop.

[Smallsat & Space Access Summit](#)

Expanding Access To Space Through Affordable and Responsive Capabilities

May 30-31, 2018

The Mary M. Gates Learning Center

Alexandria, VA

June:

[AMICSA](#)

International Workshop on Analogue and Mixed-Signal Integrated Circuits for Space Applications

June 17-20, 2018

Leuven, Belgium

Notes: Topics include "radiation effects on analogue and mixed-signal ICs," "methodologies for radiation hardening on analogue circuits at cell-, circuit-, and system design level," "radiation-hardened technologies for analogue ICs," "space applications for analogue and mixed-signal ICs" and similar sessions.

[Avionics & Space Testing Expo](#)

June 19-20, 2018

Munich, Germany

[NSMMS and CRASTE](#)

National Space & Missile Materials Symposium

Commercial And Government Responsive Access To Space Technology Exchange

June 25-28, 2018

Madison, WI

July:

[NSREC](#)

IEEE Nuclear and Space Radiation Effects Conference

July 16-20, 2018

Hilton Waikoloa Village

Kona, Hawaii

Notes: This event is a good source of information on rad hard power semiconductors and power converters with many vendors of these products participating in the exhibition. For information on power components introduced at NSREC 2018 see "[Vendors Fired Up Latest Rad Hard Power Solutions At NSREC 2018](#)". Also see How2Power's [Space Power section](#).

[ISSR&D](#)

International Space Station R&D Conference

July 23-26, 2018

Marriott Marquis Hotel

San Francisco, CA

August:

[Small Satellite Conference](#)

Small Satellite—Big Data

August 4-9, 2018

Logan, Utah

[SMD Symposium](#)

Space and Missile Defense Symposium

August 7-9, 2018

Von Braun Center

Huntsville, Alabama

September:

[RADECS](#)

Conference on Radiation Effects on Components And Systems

September 16-21, 2018

Gothenburg, Sweden

Notes: Exhibition includes power module manufacturers.

[AIAA SPACE Forum](#)

American Institute Of Aeronautics And Astronautics (AIAA) Space and Astronautics Forum and Exposition

September 17-19, 2018

Hyatt Regency Orlando

Orlando, FL

Notes: Call for papers include "Space solar power/wireless power transmission."

[DASC](#)

Digital Avionics Systems Conference

Sept 23-27, 2018

London, England, U.K.

October:

[IAC](#)

International Astronautical Congress

October 1-5, 2018

The Exhibition & Conference Center

Bremen, Germany

[AIAA International Communications Satellite Systems Conference \(ICSSC\)](#)

Co-located with Ka and Broadband Communications Conference

Space based Communications, Applications and Technologies in the 5G Era: Moving forward to the Third Decade of the 21st Century

October 15-18, 2018

Niagara Falls, Canada

November:

[Space Simulation Conference](#)

Mission Success Through Testing of Critical Challenges

November 5-8, 2018

DoubleTree Hotel

Annapolis, MD

[Cybersat](#)

Security in Connectivity

Nov 14-16, 2018

Sheraton Pentagon City

Arlington, VA

[SPACECOM](#)

Space Commerce Conference and Exposition

November 27-28, 2018

George R. Brown Convention Center

Houston, Texas

December:

[WiSee](#)

IEEE International Conference on Wireless for Space and Extreme Environments

December 11-13, 2018

Huntsville, AL

Coming in 2019:

[Space Tech Expo Europe](#)

Bremen, Germany

November 19-21, 2019

Notes: Exhibitors include power semiconductor and power module makers.

Know of a conference or tradeshow addressing space technology that is not listed here? Email the [editor](#) to tell How2Power about it.