

Microsemi Space Forum Europe

Radisson Blu Palace Hotel, Noordwijk, Netherlands

June 18, 2015



Program

Welcome to the 2015 Microsemi Space Forum!

Microsemi has been developing space solutions for almost six decades and has played an important role in a wide variety of space programs globally.

As part of our ongoing commitment to the space industry, this forum is a unique opportunity to see Microsemi's technical experts, along with our partners, presenting leading space-related products, capabilities, technology roadmaps and solutions, including the newly introduced RTG4™ radiation-tolerant field programmable gate arrays (FPGAs) and the LX7730 telemetry controller, as well as a variety of its radiation-hardened DC-to-DC converters, precision time and frequency solutions, linear and point of load (POL) hybrids, custom hybrid solutions and radiation-hardened discretes—including the broadest portfolio of JANS Class diodes and bipolar transistor products.

This Space Forum is specifically designed for space industry system-level architects, research and development engineers, design and component engineers, and other space industry professionals seeking the latest innovations in this unique market. The Digital Track and Timing, Mixed-Signal and Power Track will run simultaneously after the General Session.

Space Forum Partners



In an effort to minimize the noise level outside the general session, we are providing a location for offline conversations. The VSg 3 Room is located around the corner from the forum and will be open from 8 a.m. to 6 p.m. Please feel free to utilize this room throughout the day and see the staff at the registration desk if you require a specific meeting time.

General Session

- 7:30 **Registration**
- 9:00 **Welcome and Opening Remarks**
Siobhan Dolan Clancy, VP Worldwide Business Development, Aerospace
Rick Goerner, Sr. VP Worldwide Sales and Marketing
- 9:20 **Microsemi Space Technology Journey**
Jim Aralis, Chief Technology Officer
- 9:50 **Break**

Digital Track

- 10.00 **RTG4 Product Overview**
Ken O'Neill, Director of Marketing, Space and Aviation
- 10.30 **RTG4 Architecture Details**
Minh Nguyen, Senior Marketing Manager, Space and Aviation
- 11.00 **RTG4 Software Features**
Luca Cattaneo, European Technical Director
- 11.30 **Microsemi Precise Satellite Timing Module for Next Generation Satellite Bus**
Peter Cash, Director of Advanced Technology, Space and Defense
- 11.45 **Rosetta: The Essence and Excitement of Rocket Science**
Guest Speaker: Fred Jansen, Senior Mission Manager, European Space Agency
- 12.15 **Lunch**
- 1.15 **RTG4 Package Technology**
Raymond Kuang, Director of Package Engineering
- 1.45 **RTG4 Board Level Considerations**
Luca Cattaneo, European Technical Director
- 2.15 **Building High Reliability into Microsemi Designs, the Synplify Way**
Philipp Jacobsohn, Staff Applications Consultant (Synopsys)
- 2.35 **SpaceWire and SpaceFibre**
Prof. Steve Parkes, Managing Director (STAR-Dundee)
- 2.55 **A high efficiency serial interface protocol – ESistream**
Nicolas Chantier, Data Converters Strategic Marketing Manager (e2v)

- 3.15 **Break**
- 3.30 **Fault Tolerant LEON3 Processor and SpaceWire Router Standard Products**
Sandi Habinc, Managing Director (Cobham Gaisler)
- 3.50 **Space System Managers – Architecture and Performance**
Mathieu Sureau, Director IC Engineering
- 4.30 **RTG4 Radiation Test Results and Test Plans**
Dr J. J. Wang, Senior Principal Engineer
- 4.50 **RTG4 Reliability and Qualification**
Mike Traas, Principal Product Engineer
- 5.10 **RTG4 Demo using RTG4 Development Kit**
Luca Cattaneo, European Technical Director
- 5.30 **Questions/Answers and Wrap-Up**

Timing, Mixed Signal & Power Track

- 10.00 **Time & Frequency Product Overview & Key Performance Features**
Peter Cash, Director of Advanced Technology, Space and Defense
Ashley Pollock, Business Development Manager Space, Defense & Avionics
- 10.40 **Mixed Signal ICs for Space**
Dorian Johnson Product Marketing Manager
- 10.55 **Space System Managers – Architecture and Performance**
Mathieu Sureau, Director IC Engineering
- 11.35 **Space System Managers – LX7730 Demo**
Mathieu Sureau, Director IC Engineering
- 11.45 **Rosetta: The Essence and Excitement of Rocket Science**
Guest Speaker: Fred Jansen, Senior Mission Manager, European Space Agency
- 12.15 **Lunch**
- 1.15 **Next Generation Power Solutions: Solving Real World Interface Issues**
Kent Brooten, National Sales Manager
- 1.45 **I²MOS™ Technology Overview - A Truly Rad-Hard MOSFET**
Brian Wilkinson, Senior Director Technical and Strategic Marketing and Applications
- 2.20 **Improving the Performance of your DC-DC Forward Converter using I²MOS™ MOSFET Technology**
Al Ortega, Marketing Manager
- 2.50 **Space Power Development – Expanding Heritage with new Technology**
Kent Brooten, National Sales Manager
- 3.15 **Break**
- 3.30 **Microsemi Precise Satellite Timing Module for Next Generation Satellite Bus**
Peter Cash, Director of Advanced Technology, Space and Defense
- 4.00 **RTG4 Enabled by Microsemi Power Technology Portfolio**
Ken O'Neill, Director of Marketing, Space and Aviation
Brian Wilkinson, Senior Director Technical and Strategic Marketing and Applications
- 4.30 **TID versus ELDRS on Transistors - The Whole Picture**
Al Ortega, Marketing Manager
- 5.00 **Switching High Voltages & High Currents in Space**
Brian Wilkinson, Senior Director Technical and Strategic Marketing and Applications
Kent Brooten, National Sales Manager
- 5.30 **Questions/Answers and Wrap-Up**

Notes

Notes

Program at a Glance

Thursday 18 June, 2015
7.30 Registration
General Session 9:00 – 9:50 Welcome Microsemi Space Technology Journey
9:50 Break
10:00 Morning Presentations
12:15 Lunch (Hosted by Microsemi)
1:15 Afternoon Presentations
3:15 Break
3:30 Afternoon Presentations (continued)
5:30 Questions/Answers and Wrap-up

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