

Empower RF Systems, Inc. Press Materials  
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**FOR IMMEDIATE RELEASE**

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**IMS 2017 technical presentation "Multi-use interoperable RF amplifier"**  
**By Paulo Correa, Empower RF Systems Chief Technical Officer**

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On Tuesday June 6th Empower RF's CTO, Paulo Correa, will be presenting this topic to an audience of IMS attendees at the Exhibitor Workshop 1pm to 3pm, Room 318/319 of the Hawai'i Convention Center.

**Abstract**

*The RF system amplifier has not evolved in any significant way since the inclusion of the microcontroller twenty years ago. That's a remarkable statement given the advancements seen in virtually every other application of RF products and test systems.*



In this workshop, we will define and evaluate power amplifier architecture for modern multi-mode applications including the importance of key parameters, systems design considerations (hardware and software), operational mode settings, effective utilization of system wide components, performance trade-offs, and forward looking / capabilities (future proofing).

Real world examples and data will be shown from a single Empower RF Next Generation COTS amplifier simulating several application specific scenarios using pulse mode, frequency hopping, and multi-tone/multi-carrier modes respectively. These "use cases" provide an ideal context to discuss why this amplifier architecture has both input and output detectors and why this is necessary for user selectable Automatic Gain Control (AGC) and Automatic Level Control (ALC).

List of Workshops: <http://ims2017.org/exhibition/exhibitor-workshops>

*If you will be attending IMS 2017, we invite you to come see us at **Booth 1007**. We would be pleased to spend time with you discussing your test or operating scenarios, talking about our Company, and comparing notes on your application. If you are not able to join us at the show, please allow us to schedule a visit for you to our HQ facilities (10 minutes from LAX) or make arrangements for a "virtual tour" via web meeting to show you these products in operation.*

[http://www.empowerrf.com/company/contact\\_us.php](http://www.empowerrf.com/company/contact_us.php)



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Empower RF Systems is the technological leader in smart power amplifier solutions for EW, Threat Simulation, Radar, Communications, EMC and Product Test. Incorporating the latest semiconductor and power combining technologies with a patented architecture, we build the most sophisticated and flexible COTS system amplifiers in the world. Solutions range from tens of watts to multi-Kilowatt and include basic PA modules to intelligent scalable rack systems with AGC and ALC output modes. In addition to best-in-class SWaP, our Next Generation amplifiers have sophisticated RF detection to maximize efficiency for a variety of modulation schemes including QAM-xx, OFDM, Multi-tone, Pulse, AM, FM, and more.

**Download Empower's NEW Catalog:**

<http://www.empowerrf.com/download/download.php?doc=catalog>

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Visit Empower RF website: <http://www.EmpowerRF.com>

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