



Empower RF Systems, Inc. Press Materials
Distribution: Unlimited
Author Date: May 7, 2019

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EW Europe 2019 Presentation

”High Power Solid State Advances in Technology”

While the electromagnetic battle space becomes more densely occupied and our adversaries develop new threat methodologies, more capable threat simulation emitters systems are required. The stakes are high and domination of the electromagnetic battle space will determine the winner of conflicts, not the dominant air power. The technology scenario is not unlike the development of the airplane, its value not quickly appreciated (how we found ourselves behind China and Russia EW technology). Figuratively we are moving from the bi-plane to the mono plane. But that’s not enough, tactics need development and new systems require tiers of development and complex testing.

The concern is who will be first to develop the equivalent of the laminar flow wing of the P51 Mustang and mate it with the Rolls Royce Merlin engine? If your team talks about functions you want in your high power transmitting amplifier then you are on the right path. The following examples are amplifier capabilities that are alarmingly within reach.

- ✓ .1dB output power accuracy out of the box, no more “cal factors” in your own external lookup table, no external power metering required
- ✓ Pre loaded mission profiles including barrage, frequency hopping, multi-tone
- ✓ Input pulse shape matching
- ✓ Software defined architecture allows customized mission scenario’s
- ✓ Digital output filtering

You can learn more about the technology advances directly from Paulo Correa (Empower RF CTO) at this year’s annual AOC EW Europe Convention. Paulo’s will present on Track 2, Wednesday May 15th 11:55 – 12:15 the topic of:

High Power Solid State Advances in Technology

Advances in semiconductor RF device technology are widely communicated and well known within our EW community. What’s not widely known is how the latest developments in high speed programmable cores, ADC’s / DAC’s, DSP, fiber optics, and electro mechanical devices can be utilized in the architecture of high power solid state transmitter in ways that significantly advance the state of the art for mission critical high power systems. In this technical session Paulo Correa will describe the variety of latest technology developments and when implemented together they create solid state alternatives for higher power, higher frequency transmitters.



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Speakers Bio

Paulo Correa is Empower RF's CTO with 41 years of experience in RF and microwave with past roles including Director of Advanced Studies at Thales and CTO at Thomson Broadcast and Multimedia. With 13 patents to his name, Mr. Correa is also the architect of Empower's intelligent and flexible Next Generation series of amplifiers.

About Empower RF Systems

Empower RF Systems is a technologically superior supplier of High Power Solid State RF & Microwave Amplifiers. Our offerings include modules, intelligent rack-mount amplifiers, and multi-function RF Power Amplifier solutions HF to X Band, with output power combinations ranging from tens of watts to multi-kilowatts. Key capabilities and differentiators include Unprecedented size, weight and power reduction, patented architecture that includes an internal "connector-less" RF path (an industry first) with the added benefit of an inherently rugged design, user interface and diagnostics capabilities built around high performance microprocessors and an IP addressable, embedded web server.



Empower RF Systems will be exhibiting at this year's Electronic Warfare Europe Convention in Stockholm, Sweden at Booth E17. Empower RF Systems is conducting remote live demonstrations of our broadband, high power 1KW, 20 to 500 MHz (S) amplifier. The amplifier will be housed at our headquarters in Los Angeles and viewed in the AOC exhibit venue with live streaming video while remotely controlling the amplifier from the exhibit floor through a standard web browser.

Visit Empower RF website:

<http://www.EmpowerRF.com>



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