

At AOC 2019, Teledyne Unveils a New VPX Transceiver that Delivers the Fastest Tuning Available in the Industry

Microwave Transceiver also boasts the industry's best-in-class phase noise performance in a 6U form factor

MOUNTAIN VIEW, CA – October 24, 2019 – At next week's annual Association of Old Crows (AOC) Symposium, [Teledyne Defense Electronics \(TDE\)](#) will be featuring its latest advancement in VPX modular technology, a 6U VPX Transceiver with the fastest tuning and lowest phase noise performance available on the market today.

For more information, visit **Teledyne booth 711** next week at the 2019 AOC event in Washington, DC. A demonstration unit of the VPX Transceiver will be available in the Teledyne booth for visitors to see.

Teledyne developed the Transceiver on a modular platform to address the industry's interest in compressing development cycles and planning for technology insertion in program life extensions. This broadband 6-18 GHz VPX card is ideal for meeting the increasingly demanding requirements of today's microwave Transceiver applications in an open systems-based platform. In addition to its new standard-setting phase noise and tuning performance levels, the 6U Transceiver offers a high dynamic range and built-in LO generation with external system reference.

At a weight of <2.75 kg, the [TSA-219040 Transceiver](#) is a compact, ruggedized, and air-cooled system with 75W maximum power consumption.

"This is an exciting first step in delivering Teledyne Microwave's 'best-of-breed' family of modular solutions. The architecture allows for tailoring to meet the customer's needs in terms of tuning speed, phase noise, IBW, and frequency range. We anticipate this Transceiver will attract strong interest from customers and we encourage everyone to view the demo unit and meet our team at AOC next week," said Mike Penta, Vice President of Strategy and Business Development for TDE.

Sample Specifications:

- **High dynamic range:**
 - RF coverage: 6 to 18 GHz, 1GHz IBW
 - Noise Figure: 17 dB typical
 - Phase Noise: 1 MHz @ -113 dBc/Hz
 - Linear dynamic range: 90 dB (with 1 MHz BW)
- **External system reference:**
 - Tuning speed: 5.0 μs max (to within 10 kHz) single-tone, internally generated spurious: -80 dBm (@ -10 dBm input and max gain)
 - Reference Frequency Input: (10-100 MHz)

Teledyne Defense Electronics' deep pool of engineering expertise makes it a "go-to" supplier for customers looking for products that can deliver the highest reliability in the harshest environments, require close cooperation between the customer and the vendor, and meet the toughest SWaP specifications.

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ABOUT TELEDYNE DEFENSE ELECTRONICS

Serving Defense, Space and Commercial sectors worldwide, Teledyne Defense Electronics offers a comprehensive portfolio of highly engineered solutions that meet your most demanding requirements in the harshest environments. Manufacturing both custom and off-the-shelf product offerings, our diverse product lines meet emerging needs for key applications for avionics, energetics, electronic warfare, missiles, radar, satcom, space, and test and measurement . www.teledynedefelec.com. TDE is a business unit of Teledyne Technologies, Inc., a leading provider of sophisticated instrumentation, digital imaging products and software, aerospace and defense electronics, and engineered systems. www.teledyne.com.

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