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Enterprise, AL, January 23, 2017

Enterprise Electronics Corporation (EEC) Introduces Endurance C: Fully Solid-State C-Band Radar Systems

ENTERPRISE, AL, JANUARY 23, 2017 – In keeping with our longstanding tradition of "firsts" in the weather radar industry, EEC is proud to introduce Endurance C, our fully solid-state C-Band radar product line. Endurance C systems provide for ultra-wideband performance and low life-cycle costs thanks to advanced solid-state power amplifiers operating in the widest C-Band frequency range available. For geographic areas with diverse and dynamic weather conditions, nothing offers greater return on your investment than the Endurance C.

"This is a big day for EEC" notes Rich Stedronsky, EEC's Director of Strategic Business Development & Partnerships. "EEC becomes the first traditional commercial weather radar provider in the world to offer a fully solid-state C-Band dual-polarization Doppler weather radar. Thanks to its perfect balance of power and effective range, the Endurance C system is the ideal choice for customers with a diverse set of weather detection demands," Stedronsky continues. "By combining 4 low-power solid-state amplifiers (10kW total) with our patented pulse-compression technology, we are able to obtain the sensitivity and effective range of a ~350-400kW C-Band magnetron radar. All of this in a system that requires virtually no transmitter maintenance and minimal life-cycle costs."

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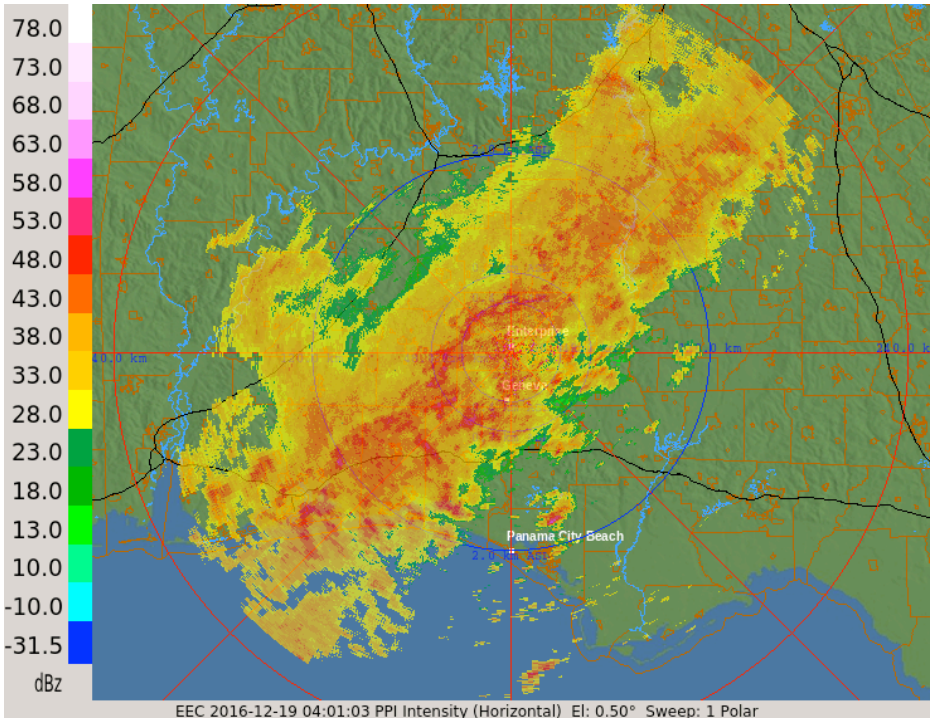
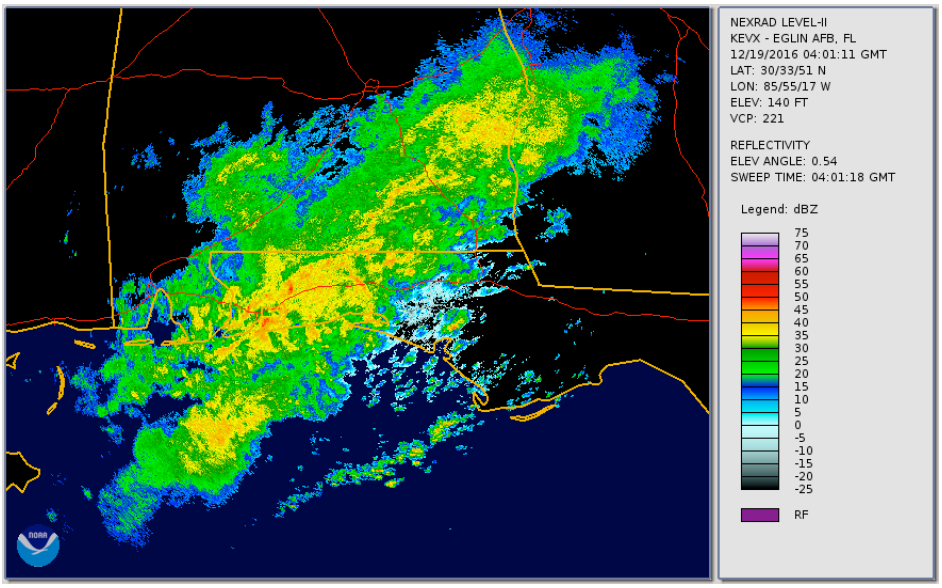
EEC's new Endurance C transmitter cabinet on display at the 2017 AMS Show in Seattle, WA





Excellent comparison of our new Endurance C solid-state C-Band transmitter system (top) vs. a nearby NEXRAD system in Northwest Florida (bottom). Endurance C shows excellent resolution and storm detail with minimal attenuation. Endurance C; the solid-state of things to come!

Endurance C Advantages

- Systems come standard with a fully solid-state 10kW transmitter. Equivalent Transmitter Power (ETP) of ~350-400kW using pulse compression
- Reduced life-cycle maintenance costs thanks to no reliance on consumable magnetron or klystron tubes
- Ultra-wideband performance from 5200-5900 MHz virtually removes any risk of frequency interference
- Hot-swapping of solid-state power amplifiers means no system downtime during transmitter maintenance
- Safe, low voltage solid-state power amplifiers provide no high voltages to endanger technicians and preventative maintenance engineers
- Algorithms developed and specifically tuned for performance at C-Band
- Designed for high-resolution medium to long range weather detection
- Innovative architecture provides the highest receiver sensitivity
- Advanced radar motion control system provides better spatial resolution resulting in more accurate data
- Industry leading clutter suppression technology
- Patented fiber-optic technology provides noise free, ultra-high speed data throughput
- Adaptive spectrum-based clutter mitigation algorithms
- Improved data quality achieved through advanced continuous calibration techniques
- Advanced Polarimetric rainfall estimation and attenuation correction techniques
- Super-high resolution IQ2 16-bit digital signal-processor
- Over 500 configurable diagnostic points monitored in real-time
- Systems configured with IQ data recording and playback

About EEC

EEC is recognized as the world leader in the meteorological radar field since its inception in 1971 with more than 1,000 radar systems manufactured and delivered in the United States and over 100 countries worldwide. Since the founding of the company, EEC has consistently led the industry worldwide in the introduction of the latest available technology to enhance radar and data processing performance. A strong focus on innovation and technology infusion into the product line continues to be a driving factor in EEC's leadership in the weather radar market. More information about Endurance C can be found here: http://www.eecradar.com/c-band-endurance.php.

EEC's general products and capabilities can be viewed at www.eecweathertech.com. Be sure to follow EEC on social media at the following links: https://www.facebook.com/EECRadar and https://twitter.com/eecweathertech.