



## High-speed E-Field probe for pulsed field measurements



### RadiSense - RSS3000U

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# General description



# RadiSense RSS3000U series – General description

### RSS3018U:

- First ultra high-speed probe model
- Frequency range up tot 18 GHz
- Wide dynamic range
- Stand-alone operation
  - (no post-processing by PC required)



### Design optimizations

### High speed ADC's

- Three axes continuously sampling at 2.1 Msps

### Single range, logarithmic amplifiers for each axis

- High-speed signal path for pulsed field measurements
- Wide dynamic range and high sensitivity

### New custom-made BIDI circuit

Ultra high-speed optical data transfer

### New, high efficiency optical power converter

Low power design to achieve high laser safety



### New plug-in card platform

Support for new product developments requiring high data speed and/or complex post processing

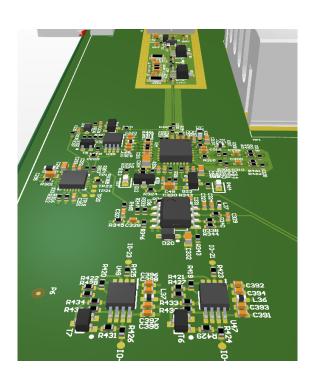
### Based on Analog Devices DSP containing:

- ARM core, 2 DSP cores
- FFT hardware accelerator
- FIR and IIR hardware accelerators
- LAN/USB/RS232 interfaces
- 4 Gbit RAM
- 128 Mbyte SPI FLASH
- 4 Gbit FLASH e-MMC memory



### Ultra series plug-in card







# Applications



### RadiSense 3000 series - Applications

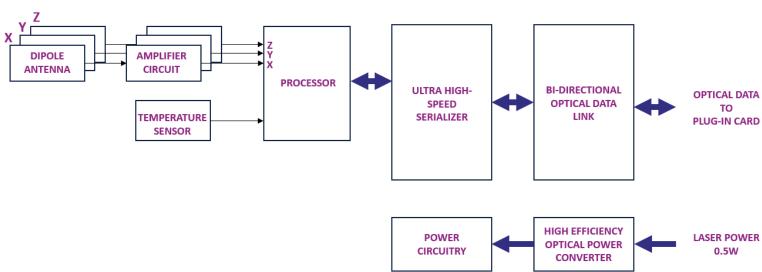
- Field measurements in reverberation chambers
- Fast chamber calibrations (16-point verification)
- Multiprobe testing in automotive and military applications
- Measurement of pulsed fields (radar pulses)



# Simplified block diagram

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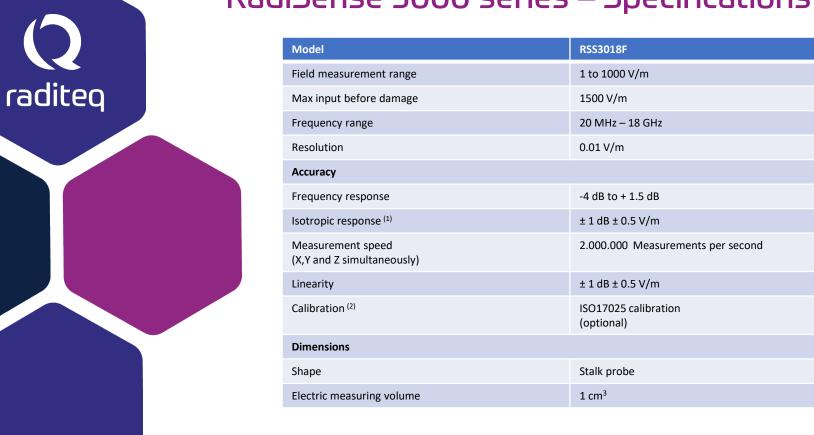
### RadiSense 3000 series – High Level Design





# Specifications







# Housing



### RadiSense 3000U series – Housing







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