The leading developer and manufacturer of RF electronics technologies.

Defence Electronics

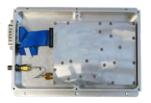




Sub-Systems and Components

Synthesizers

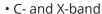
Low-noise and fast-hopping synthesizer modules for fixed, mobile and man portable radar systems.



- D-, F-, H-, I- and X-band
- Master oscillator
- Very low phase noise
- Fast hopping frequency synthesizers

Transponders

Radar transponders for target practice.



- Flexible coding
- Target exercises



Amplifiers

A wide range of amplifier types for radar systems,

including high-power pulse amplifiers, pre-amplifiers for L-band and RF distribution amplifiers for phased array antennas.

- GaN-amplifiers
- Driver amplifiers
- Pulsed amplifiers
- RF-power distribution amplifiers

Selectors

Monitoring and function control for radar systems. Functions are RF amplification, calibration, network selection, isolation measurement and RF absorption.



- X-band
- Fast switching (TX-path to switching RX-path)
- RF absorption of input signal (silent mode)
- Frequency downconversion

Radar Converter

Used for radar up/down converting.



- IF-Band to X-Band (L-Band to Ka-Band)
- Dual Conversion
- Frequency agile
- Ultra Low phase noise and spurious performance
- · High gain stability
- Optional Tx or Rx Cal modes

Signal Generators

Signal generators with extremely low phase noise and high stability.



- Frequency ranges up to 55 GHz
- Very low phase noise
- Variable power level
- Power level up to +20 dBm (<2.8 GHz) and up to +15 dBm (>4.0 GHz)
- Pulse modulation option (10 MHz to 2.8 GHz)

PLOs and Oscillators

PLOs most commonly used as lownoise, high-frequency reference sources for scientific synthesizer applications.



- · Internal and external reference
- High power output, up to > +20 dBm
- Low power consumption

Wideband Downconverter

Downconverter with wideband frequency range and integrated low phase noise synthesizer.

- Frequency ranges up to 55 GHz
- Instantaneous BW >1 GHz
- Optional through and calibration paths
- Modular and rack-mount version available
- DO-160G qualified







Agile, in-house Engineering solutions

- · Replacement of obsolete equipment
- Form-Fit-Function Replacements
- Build-to-Print
- On-Demand Engineering
- ITAR-free technology
- Extended Workbench

Our engineering capabilities include:

System design, including electronics, modules and software architectures.

- Software
- FPGA design / verification
- DSP Design
- Analog (RF) and digital hardware development

Key customers:



























What makes us different:

Combination of ultra-low phase noise & short switching times of synthesizers Sophisticated high-end product design Best-in-class spectral purity Advanced 'state of the art' technologies High German quality & outstanding reliability

European export control regulations



Advantage for our customers

Agile and flexible solutions for your engineering challenges - from effective product design, via system integration, shorter time-to-market to a superior quality assurance/control.

- 35 years of experience & competence in RF design and digital signal processing
- MIL compliant customized product design
- R&D investments in cutting-edge technology
- Specialized in custom made products
- Engineering and manufacturing under one roof
- German made reliability & quality
- EN ISO 9001:2015 certified
- Continuous R&D investments in cutting-edge technology





