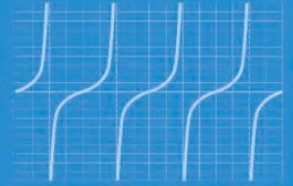
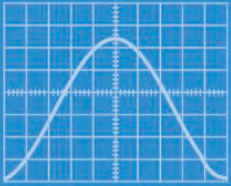
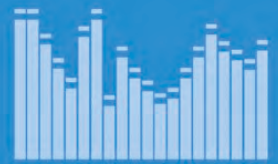


RF Power Amplifiers

for multi-purpose applications



RF amplifier BG



The right RF solution for you!

Power Amplifier Modules for radar applications VHF, L-band and S-Band



Main advantages:

- Output power 2–4 kW;
- Micro-processing system for control and management with RS-485 interface;
- 19inch Rack Mountable;
- Long operating life and at least 15 years of possibility for delivery of spare parts.

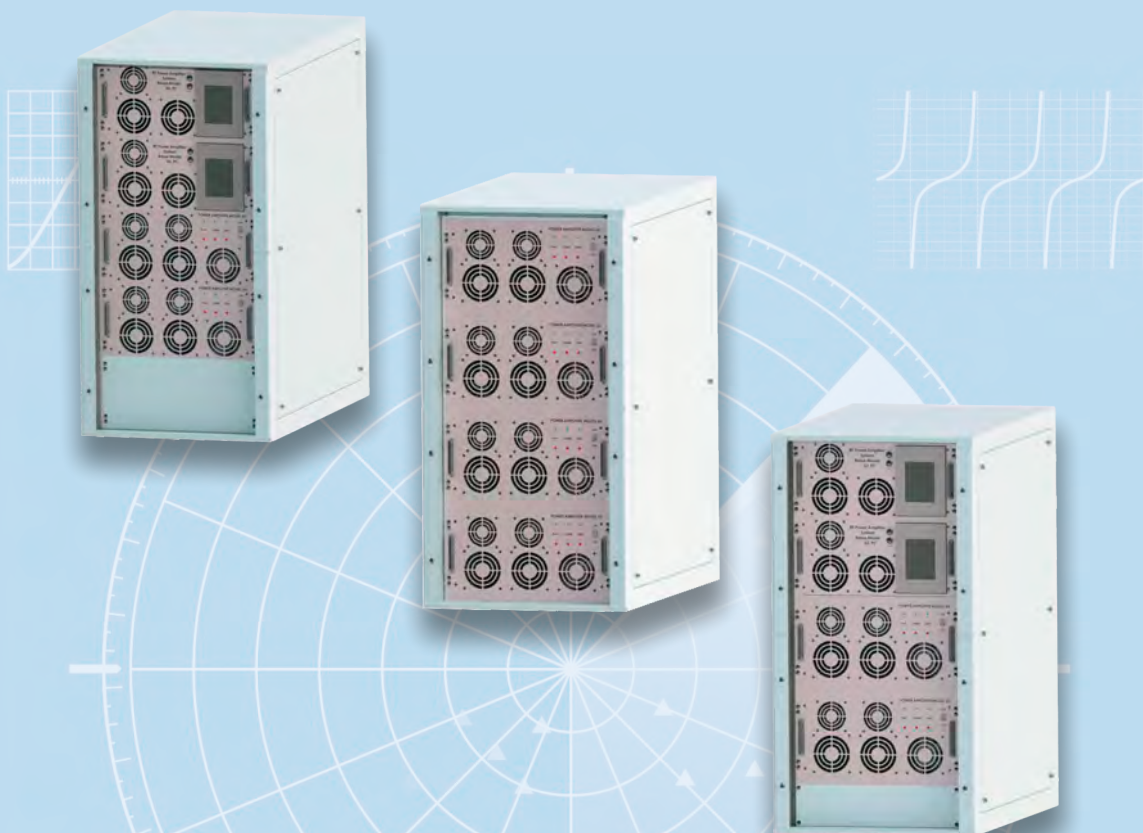
Multi-channel Power Amplifiers for EW applications



Main advantages:

- Single Power Amplifier up to 1kW for HF, VHF and UHF frequency bands;
- High efficiency;
- Multiple amplifiers in one corpus;
- Touchscreen display option;
- Standard 5U rack mountable.

Power Amplifier Systems for EW applications



Main advantages:

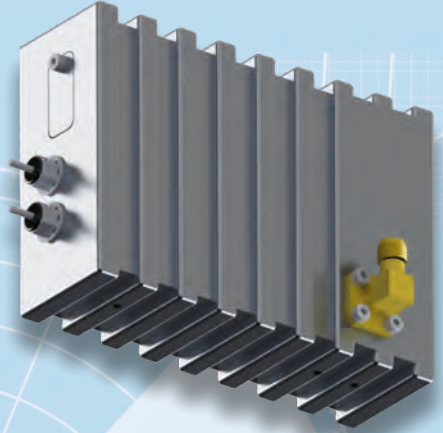
- Designed for use in high VSWR military radio applications.
- Frequency range 20 - 3000MHz, optional to 6 GHz;
- Output power 500 - 1000W;
- Integrated touchscreen PC;
- API for remote controlling the power amplifier using PC;
- Long operating life and at least 15 years of possibility for delivery of spare parts.



A few examples of our other products



Transmitter modules



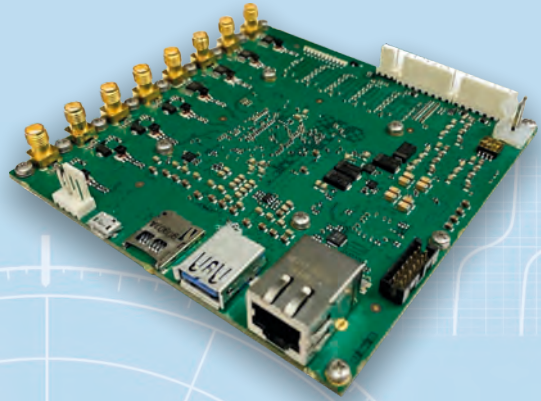
SDR Exciters



RF Power Amplifiers

RFSoc System-on-Module

The RFSoc System-on-Module is designed for integration into deployed RF systems demanding small footprint, low power, and real-time processing. The board is a complete, ready-to-use system built around the Xilinx Zynq® UltraScale+™ RFSoc, and provides access to large FPGA gate densities, 8 RF-ADC, 8 RF-DAC channels, expandable I/Os port and DDR4 memory for variety of



different programmable applications. The Zynq® UltraScale+™ RFSoc integrates key subsystems for multiband, multi-mode RF systems into an SoC platform that contains a feature-rich 64-bit quad-core Arm Cortex-A53 and dual-core Arm Cortex-R5 based processing system.

The RFSoc System-on-Module is supported by four 12-bit ADC 4.096 GSPS and four 14-bit DAC 6.554 GSPS ports. The ADC and DAC ports are supported through high-performance SMARF connectors.

Features

Xilinx Zynq® UltraScale+™ RFSoc

- 4x ADCs, 12-bit up to 4.096 GSPS
- 4x DACs, 14-bit up to 6.554 GSPS
- Quad-core Arm® Cortex®-A53 processing subsystem
- UltraScale+ programmable logic
- 1 Gigabit Ethernet port, , USB2/3
- MicroSD (Processor side)
- FPGA JTAG Header
- 1 USB/UART
- RS422 port

Clocks & Synchronization

- Ultra-low jitter programmable sampling clocks
- Phase coherent synchronous sampling across all converters

Memory

- 4GB DDR4 @ Processor Subsystem
- 512MB QSPI boot storage

System

- 114 mm x 114 mm x 40mm footprint
- 7V to 15V input
- Temperature monitor
- Industrial temperature rated components (-40°C to +85°C)

Target apps

- Multi-Channel RF Instrumentation
- Signal Detection & Jamming
- Phased Array Radar
- 5G Massive MIMO
- Hybrid Beamforming

Expertise Enhancement and Training

Due to the know-how embedded in the company in terms of highly qualified engineering and testing staff with vast practical experience, we are able to give trainings which will enhance the expertise of your engineering and technical staff.

We offer courses with valuable technological and practical knowledge.



RF Amplifier-BG is the leading company in Bulgaria in design and production of RF power amplifiers

Field of activity :

- Research and development activities;
- Design, construction, production and sale of radio communicational and radiolocation products with commercial and defence related applications.
- Certified by ISO 9001:2015, ISO 14001:2015, ISO 45001:2018.
- Expertise Enhancement Trainings.
- Together with our system integration partners we deliver technically sound, cost effective solutions for our clients all around the world.



RF Amplifier-BG EOOD
Private Limited Liability Company

Administrative Office:

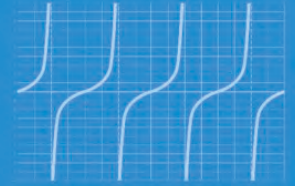
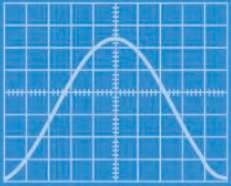
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