



**bruco**  
INTEGRATED CIRCUITS

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# MODULAR SOLID STATE RF-ENERGY GENERATOR

## RF ENGINEERING KIT

Enables accurate and controlled scientific, medical and industrial experiments based on Solid State Microwave technology.

RF-Energy applications require an extreme control, efficiency, ruggedness and simplicity of operation.

The modular Solid State RF-Energy generator series from Bruco IC are specifically designed for R&D work on such applications. They offer a monitoring capability and a highly flexible configurability.

The system is modular and customer configurable. It is possible to add power amplifiers modules for 433MHz, 915MHz or 2.4GHz with different power levels. For example, at 2.4GHz up to four modules can be used simultaneously to generate 250W signals or can be combined to form a single output of 1KW with external high-power combiner. The unit comes with an integrated power supply and a forced air cooling system optimized to guarantee a long-life operation.

## QUICK OVERVIEW

- Compact 19 inch rack
- Built-in power supply
- Multiple frequency channels: 433MHz, 915MHz and 2.4GHz
- CW and CW pulsed operation
- Smart air cooling system
- Can drive single or multiple probes
- Excellent for laboratory and experimentation purposes
- User-Friendly control interface

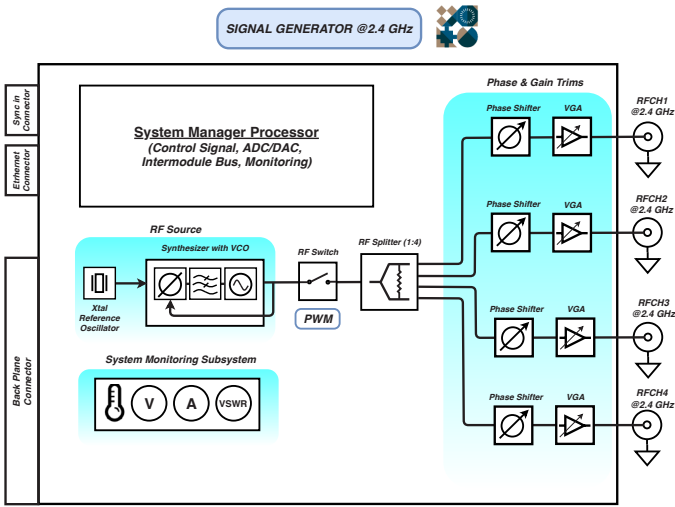
## BENEFITS

- **PRECISION:** Ability to tailor the frequency, phase and output power.
- **SMALL FORM FACTOR/LOW VOLTAGE:** Transistor size and low power requirements enables easy integration.
- **SYSTEM EFFICENCY:** By monitoring the right amount of power delivered to load.
- **REPEATABLE:** Via smart feedback loops it is possible to achieve same results all over time.

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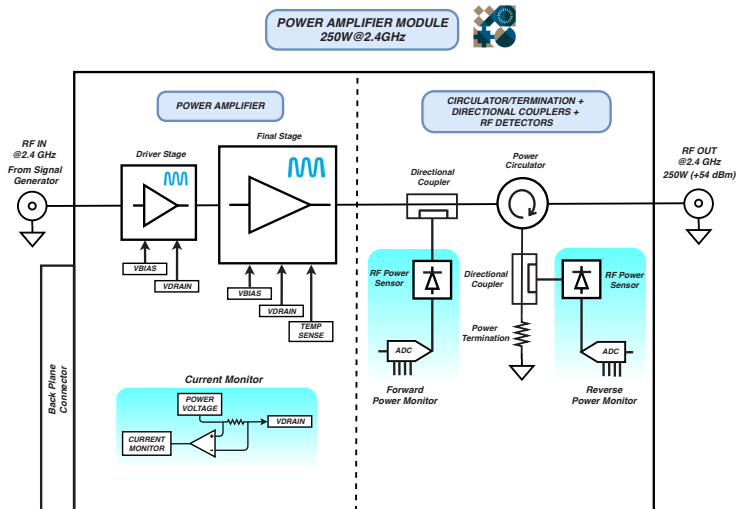


# SIGNAL GENERATOR

Using an integrated microprocessor, a single PLL chip and an internal or external reference signal, the signal generator unit is able to create four separate signal synchronized to drive four separate amplifiers.

# POWER AMPLIFIER

The 3-stage amplifier has a built-in circulator for protection of the reflected power and a directional coupler for smart reading measurements.



## ACCURACY

Full control of frequency, amplitude and phase



## FLEXIBILITY

Enables endless ISM applications by smart custom integrations



## RUGGEDNESS

No need of external circulator, long life time

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