

# SPECTRE L-Band ↔ IP Platform

Clearbox Systems presents Spectre - a high performance, scalable Analog RF to 10 GigE platform.

Spectre enables both Transmit and Receive RF applications from 400MHz to 4GHz at 200MHz bandwidth with streaming to and from 10Gbit/s Ethernet.

Rather than performing any on board processing Spectre hands off the digitised RF for processing elsewhere.

Spectre can be used as a desktop unit or as multiple units mounted in a chassis.

This flexibility means that Spectre is suitable for applications ranging from Research or Academia to Industrial or Military.

Spectre features a Xilinx Kintex XC7K160 FPGA and 512MB DDR3 RAM.



## PERFORMANCE

- Bandwidth: Up to 200MHz
- RF Selection: 400MHz to 4GHz
- ADC: Dual, 16-Bit 310 MSPS anti-aliasing
- DAC: Dual, 16-Bit 1230 MSPS anti-aliasing

## PHYSICAL

- Dimensions: 160mm x 100mm VME Card Profile
- Weight: 270g (298g including development jig)

## ENVIRONMENTAL

- Temperature: 0°C ~ 70°C with cooling fan (recommended)
- Humidity: 90% non-condensing

## CLEARBOX SYSTEMS

Clearbox Systems is a specialist provider of Spectrum Management Hardware and Software. Products and Systems range from research and development tools to turnkey spectrum monitoring systems for nation-wide networks.

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## INTERFACES

- RF In/Out: SMA
- Transmit Power: 0dBm
- Receive Level: 0dBm
- Ethernet: SFP+ 10GigE Optical Ethernet
- Additional interface expansion board providing USB for JTAG and debug, USB serial for console, reset button, jtag header, SMA for Clock reference and 2 screw terminal connector for power (not required when chassis is used)

## POWER

- DC Input: 12 volts at 1.4A
- Power Consumption: 16.8W running typical streaming application running.

