**SOF201**  
**Octal RF Transceiver, SOFI Module**

**Key Features**
- Octal wideband Transceiver, 300 MHz to 6 GHz, using four AD9371
- Transmit synthesis bandwidth to 250 MHz
- Two Observation Receiver, one Sniffer Receiver
- Clock from onboard Wideband PLL or direct RF clock
- LMK04821 PLL with 122.88 MHz VCXO

The SOF201 has four AD9371 transceivers, each providing dual differential transmitter, dual differential receiver, two observation receivers and a sniffer receiver. The transceivers have a tuneable range of 300 MHz to 6000 MHz with transmit synthesis bandwidth to 250 MHz and receive bandwidth of 8 MHz to 100 MHz. The module is suitable for aerospace, instrumentation and communication applications, and supports frequency division duplex (FDD) and time division duplex (TDD) operation.

**NOTE:** This module is not orderable as a standalone item and must be purchased as part of an AMSxxx (AMC module) or VPSxxx (3U VPX module) product. See **SOFI Overview** for details.
Figure 1: SOF201

Figure 2: SOF201 Conduction Cooled
Figure 3: SOF201 Functional Block Diagram
SOFI Modules

SOFI modules are physically similar to FMC modules but are incompatible with FMC carriers, and are not designed to be interchangeable in the field.

See SOFI Overview for compatibility with AMC and 3U VPX carriers. If the particular combination of form factor, FPGA and ADC/DAC performance you require is not yet listed, please contact your local VadaTech sales team for details of how we can support you.

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