

# SOF201

## Octal RF Transceiver, SOFI Module



SOF201

## Key Features

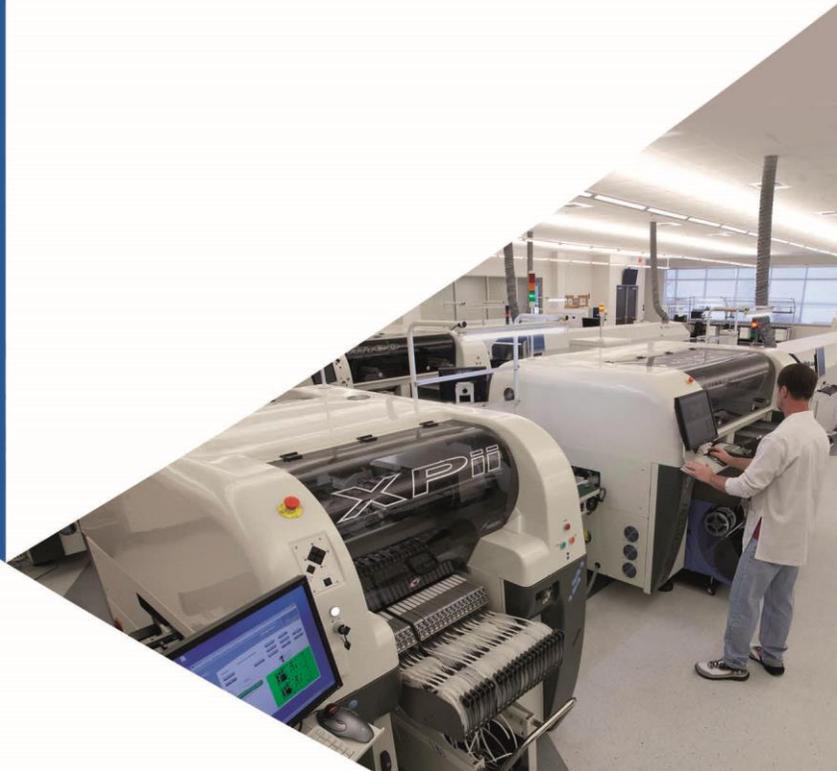
- Octal wideband Transceiver, 300 MHz to 6 GHz, using four AD9371
- Transmit synthesis bandwidth to 250 MHz
- Two Observation Receiver, one Sniffer Receiver
- Clock from onboard Wideband PLL or direct RF clock
- LMK04821 PLL with 122.88 MHz VCXO

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.



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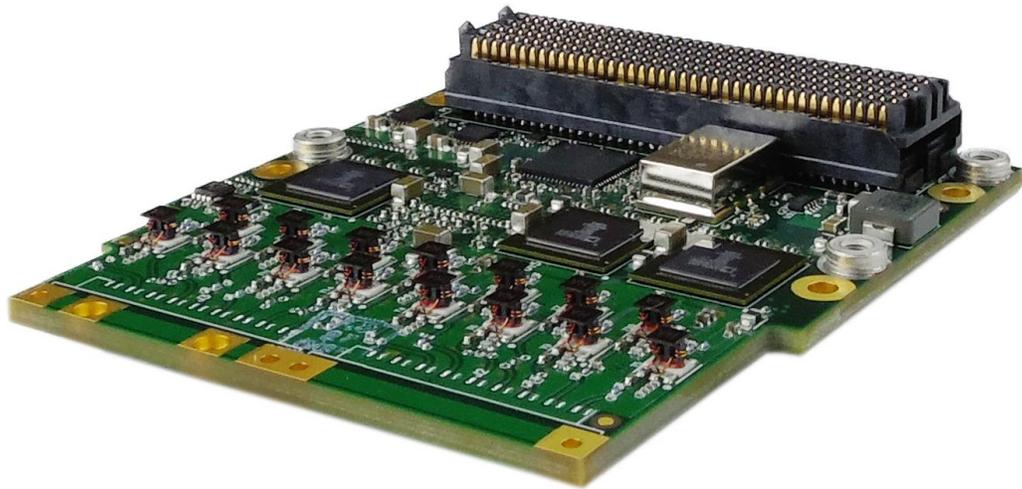


Figure 1: SOF201

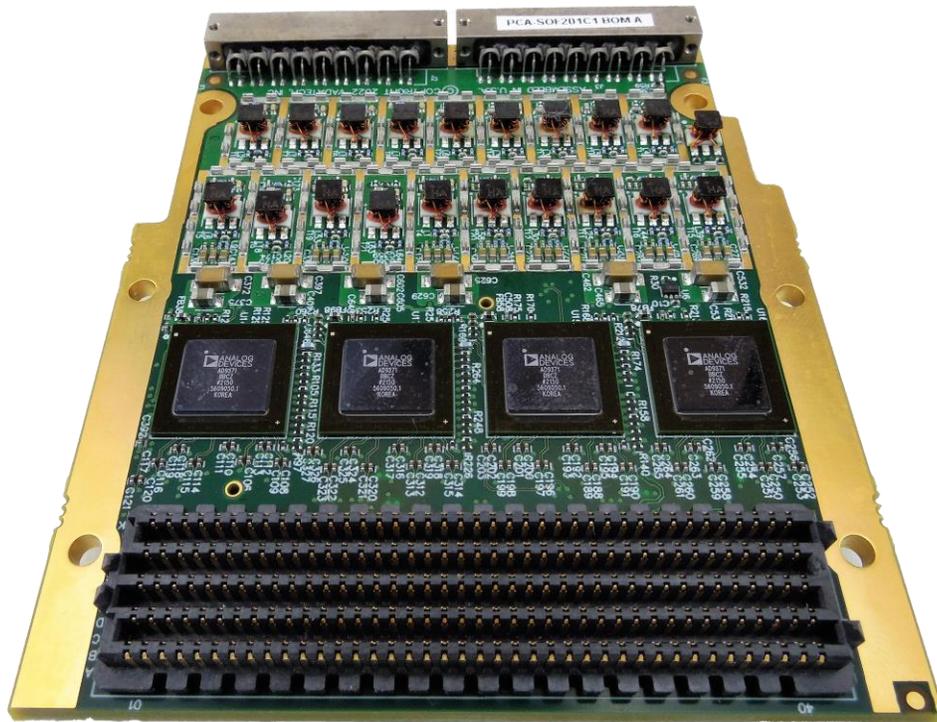


Figure 2: SOF201 Conduction Cooled

# Block Diagram

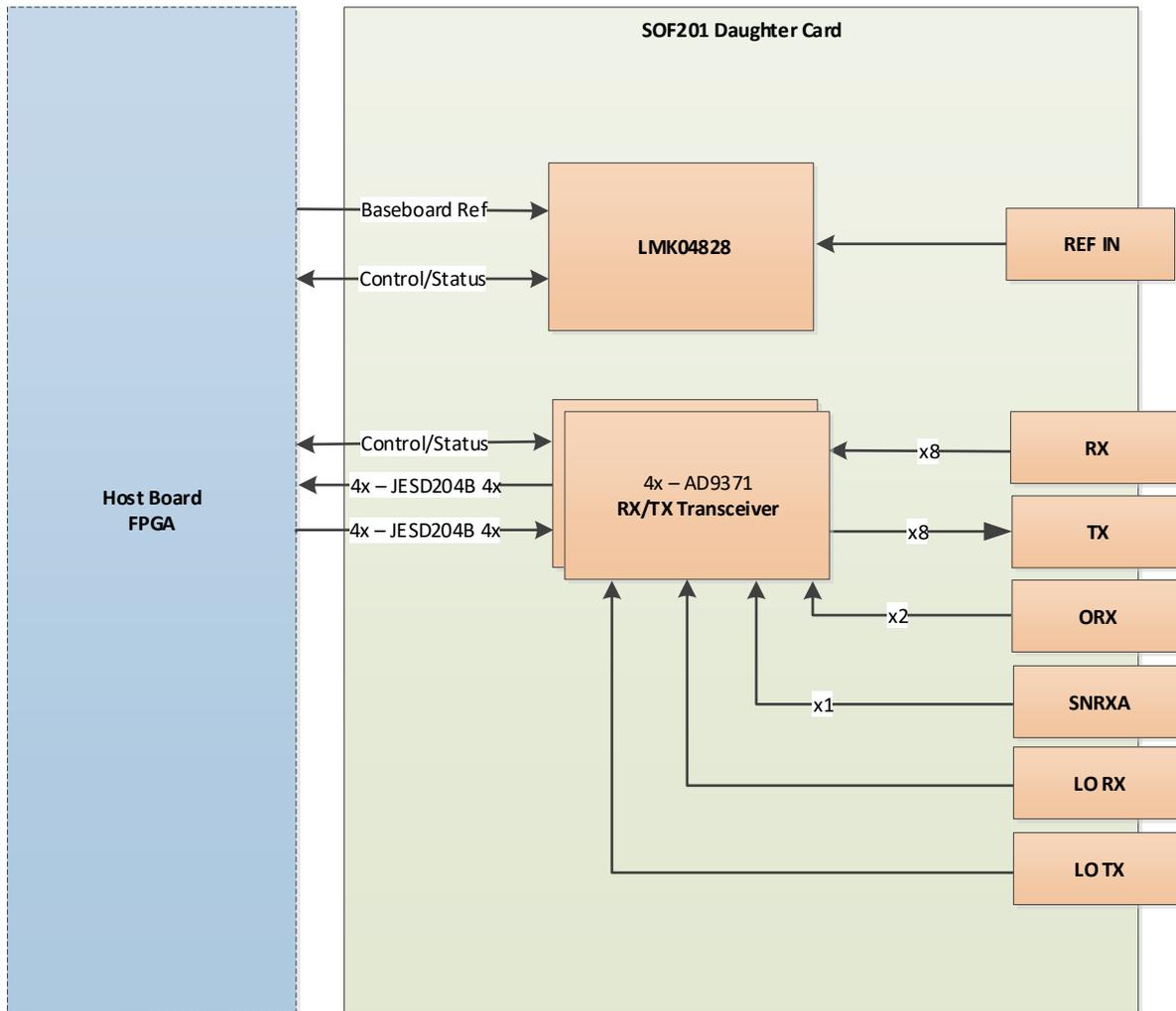


Figure 3: SOF201 Functional Block Diagram

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# 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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DOC NO. 4FM737-12 REV 01 | VERSION 1.1 – MAR/23