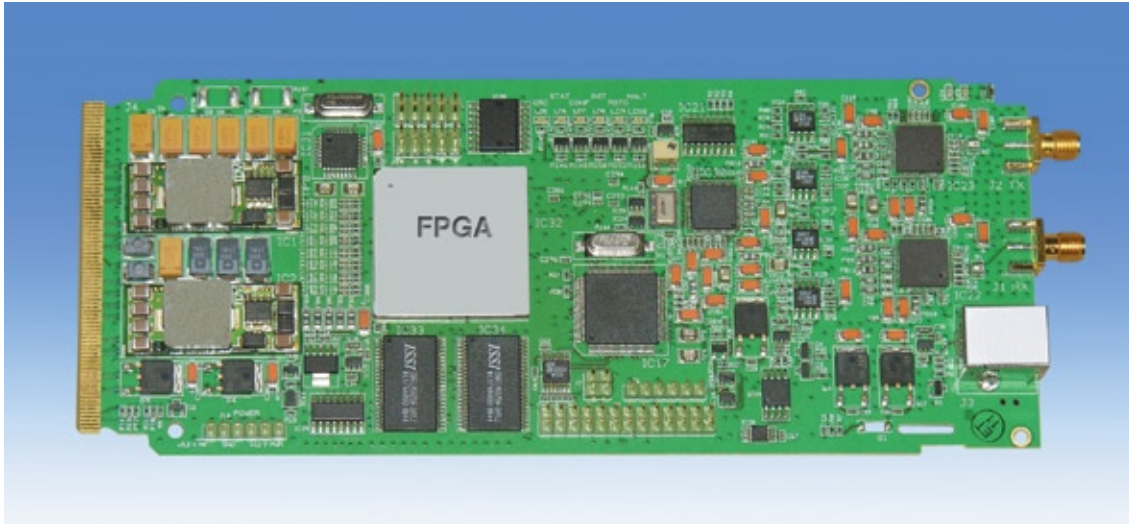


WRF1001 Tiger Board MicroTCA Reference Design



WRF1001-MicroTCA Tiger board

SUMMARY FEATURES

- Frequency bands: 2-4GHz
- TX output power: -10dBm modulated, average
- High channel bandwidth: up to 28MHz.
- Zero IF
- 12-bit baseband ADCs and DACs
- 40MHz sampling rate using low-noise sampling clock source
- FPGA-based DSP resampling to various sampling rates
- High level command set for simple setup and programming
- Automated calibration
- Serial RapidIO backplane interface (up to 3.125Gb/s)
- Single Serial RapidIO port carries both I/Q and control traffic
- No separate clock port needed
- MMC using MCF52221 microcontroller
- I/Q record/playback capability for testing purposes
- Full speed USB 2.0 for PC controlled standalone operation
- Single-width, full-height AMC form factor (180.6 x 73.5 mm)

Full data sheet of the reference design available on request

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