



Broadcast Products FM Radio Tuners

Features: • Broadcast FM Radio Tuners for portable applications • Highly integrated, globally compliant and easy to implement
• Best-in-class-performance

| Description | Digi-Key Part No. | 1 | 25 | 100 | Silicon Labs Part No. |
|---|-------------------|-------|------|------|-----------------------|
| CMOS digital FM tuner with integrated crystal oscillator support | 336-1378-ND◆ | 6.38 | 5.11 | 4.09 | SI4700-B15-GM |
| Includes digital processor for the European Radio Data System (RDS) and the US Radio Broadcast Data System (RBDS) | 336-1379-ND◆ | 7.35 | 5.88 | 4.71 | SI4701-B15-GM |
| Evaluation Board | | | | | |
| Evaluation Board for SI4701 | 336-1381-ND | 90.75 | — | — | SI4701-B-EVB |

◆ RoHS Compliant



RF Products



| Description | Package | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | Tape and Reel | | Texas Instruments Part No. |
|---|----------|-------------------|---------------------|-------|-------|-------------------|---------------|-----------|----------------------------|
| | | | 1 | 25 | 100 | | Qty. | Pricing | |
| 2.5GHz, High Dynamic Range, Low-Noise Down-Converter | 20-QFN | 296-19795-1-ND◆ | 7.08 | 6.38 | 5.65 | 296-19795-2-ND◆ | 250 | 1353.81 | TRF1115IRGPT |
| 2.5GHz, Integrated Up-Converter | 32-QFN | 296-19796-1-ND◆ | 6.65 | 5.99 | 5.32 | 296-19796-2-ND◆ | 2,500 | 4851.86/M | TRF1122IRTMR |
| 2.5GHz, Integrated Up-Converter | 32-QFN | 296-23069-1-ND | 7.32 | 6.59 | 5.85 | 296-23069-2-ND | 250 | 1400.09 | TRF1122IRTMT |
| 2.5GHz, 1W Power Amplifier | 32-QFN | 296-23070-1-ND | 6.35 | 5.72 | 5.07 | 296-23070-2-ND | 250 | 1214.96 | TRF11223IRTMT |
| Dual VCO/PLL Synthesizer with IF Down-Converter | 48-QFN | 296-19314-1-ND◆ | 15.41 | 14.39 | 13.36 | 296-19314-2-ND◆ | 250 | 3274.44 | TRF1212IRGZT |
| 3.5GHz High Dynamic Range, Low-Noise Down-Converter | 20-QFN | 296-19289-1-ND◆ | 7.08 | 6.38 | 5.65 | 296-19289-2-ND◆ | 250 | 1353.81 | TRF1216IRGPT |
| Dual VCO/PLL Synthesizer with IF Up-Converter | 48-QFN | 296-19290-1-ND◆ | 15.41 | 14.39 | 13.36 | 296-19290-2-ND◆ | 250 | 3274.44 | TRF1212IRGZT |
| 3.5GHz Integrated Up-Converter | 32-QFN | 296-19291-1-ND◆ | 7.32 | 6.59 | 5.85 | 296-19291-2-ND◆ | 250 | 1400.09 | TRF1222IRTMT |
| 3.5GHz, 1W Power Amplifier | 32-QFN | 296-23071-1-ND | 6.65 | 5.99 | 5.32 | 296-23071-2-ND | 250 | 1272.86 | TRF1223IRTMT |
| 2GHz Low Voltage Synthesizer | 20-TSSOP | 296-1969-5-ND‡ | 3.51 | 2.81 | 2.19 | — | — | — | TRF2052PW |
| Dual-Band IQ/IF Transceiver with Dual VCO Synthesizers | 56-QFN | 296-19797-1-ND◆ | 6.65 | 5.99 | 5.32 | 296-19797-2-ND◆ | 250 | 1272.86 | TRF2432IRTQT |
| High-Power Dual-Band RF Front-End | 40-QFN | 296-21353-1-ND◆ | 10.64 | 9.59 | 8.50 | 296-21353-2-ND◆ | 250 | 2036.43 | TRF2436IRBT |
| 0.4GHz ~ 1.5GHz Quadrature Modulator | 16-QFN | 296-17198-ND‡◆ | 6.14 | 5.54 | 4.91 | — | — | — | TRF37011RHCC |
| 1.5GHz ~ 2.5GHz Quadrature Modulator | 16-QFN | 296-17350-ND‡◆ | 6.14 | 5.54 | 4.91 | — | — | — | TRF37021RHCC |
| 0.4GHz ~ 4.4GHz Quadrature Modulator | 24-VQFN | 296-23336-1-ND | 9.86 | 8.88 | 7.87 | 296-23336-2-ND | 250 | 1885.97 | TRF370317IRGET |
| PLL Frequency Synthesizer | 16-TSSOP | 296-16941-5-ND‡◆ | 3.92 | 3.14 | 2.65 | — | — | — | TRF37501PW |
| High-Performance Integer-N PLL Frequency Synthesizer | 20-QFN | 296-17520-5-ND‡◆ | 4.36 | 3.49 | 2.95 | — | — | — | TRF37501RGP |
| 420MHz ~ 450MHz Single-Chip RF Transmitter | 24-TSSOP | 296-11056-5-ND‡◆ | 2.93 | 2.34 | 1.82 | — | — | — | TRF4400PW |
| 850MHz ~ 950MHz Single-Chip RF Transmitter | 24-TSSOP | 296-11057-5-ND‡◆ | 2.22 | 1.78 | 1.39 | — | — | — | TRF4900PW |
| Single-Chip Multiband RF Transmitter | 24-TSSOP | 296-17876-5-ND‡◆ | 2.22 | 1.78 | 1.39 | — | — | — | TRF4903PW |
| 902MHz ~ 928MHz Single-Chip RF Transceiver | 48-LQFP | 296-14059-1-ND◆ | 4.63 | 3.71 | 3.13 | 296-14059-2-ND◆ | 1,000 | 2895.29 | TRF5901PTR |
| 850MHz ~ 950MHz Single-Chip RF Transceiver | 48-LQFP | 296-11058-ND‡◆ | 3.95 | 3.16 | 2.67 | — | — | — | TRF6900APT |
| 860MHz ~ 930MHz Single-Chip RF Transceiver | 48-PQFP | 296-12242-ND‡ | 3.95 | 3.16 | 2.67 | — | — | — | TRF6901PT |
| Single Chip Multiband RF Transceiver | 48-PQFP | 296-17391-ND‡◆ | 2.99 | 2.40 | 1.86 | — | — | — | TRF6903PT |
| Fully Integrated Analog Front-End Dual Receiver Base | 28-TSSOP | 296-19301-5-ND‡◆ | 2.45 | 1.97 | 1.53 | — | — | — | TRF7900APW |
| Fully Integrated Analog Front-End Dual Receiver Base | 28-TSSOP | 296-19302-5-ND‡◆ | 2.45 | 1.97 | 1.53 | — | — | — | TRF7900PW |
| RFID Front End 13.56MHz | 32-QFN | 481-1111-1-ND◆ | 7.14 | 6.43 | 5.70 | 481-1111-2-ND◆ | 250 | 1365.42 | TRF7960RHBT |
| RFID Front End 13.56MHz | 32-QFN | 481-1112-1-ND◆ | 7.11 | 5.70 | 4.81 | 481-1112-2-ND◆ | 3,000 | 4411.18/M | TRF7961RHBR |
| 0.4GHz ~ 4GHz Quadrature Modulator | 24-QFN | 296-20731-1-ND◆ | 9.31 | 8.39 | 7.44 | 296-20731-2-ND◆ | 250 | 1781.97 | TRF370315IRGET |
| 0.4GHz ~ 4GHz Quadrature Modulator | 24-QFN | 296-21288-1-ND◆ | 9.31 | 8.39 | 7.44 | 296-21288-2-ND◆ | 250 | 1781.97 | TRF370333IRGET |
| Programmable, Wideband Crest Factor Reduction Processor | 256-BGA | 296-20702-ND‡◆ | 38.12 | 35.58 | 33.04 | — | — | — | GC11151ZDJ |
| High-Density Digital Upconverter | 388-BGA | 296-20745-ND‡◆ | 89.84 | 83.86 | 77.87 | — | — | — | GC53181ZED |

‡ Bulk ◆ RoHS Compliant



RF Transceivers/Transmitters



CC2500EMK Kit: These evaluation modules in combination with a motherboard from a CC2500 development kit are designed to help the user to achieve objectives as quickly as possible. Right out of the box the user can do range testing (PER testing) and transfer data from one PC to another using the SmartRF®04DK. This

enables the user to quickly find out how well the SmartRF®04 products fit the intended application. A number of demonstration applications serve to highlight the innovative features of the SmartRF®04 ICs. **Kit includes:**
• Two CC2500EM evaluation modules • Two antennas

| Description | Package | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | Tape and Reel | | Texas Instruments Part No. |
|--|----------|-------------------|---------------------|------|------|-------------------|---------------|-----------|----------------------------|
| | | | 1 | 25 | 100 | | Qty. | Pricing | |
| Single Chip Very Low Power RF Transceiver | 28-TSSOP | 296-19457-5-ND‡◆ | 5.52 | 4.42 | 3.73 | — | — | — | CC1000PW |
| Single Chip Very Low Power RF Transceiver | 28-TSSOP | 296-19576-1-ND◆ | 5.52 | 4.42 | 3.73 | 296-19576-2-ND◆ | 2,500 | 3420.92/M | CC1000PWR |
| Single Chip Very Low Power RF Transceiver | 28-XCEPT | 296-19458-ND‡◆ | 6.39 | 5.12 | 4.32 | — | — | — | CC1000YZ |
| Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller | 64-TQFP | 296-19459-ND‡◆ | 7.74 | 6.97 | 6.18 | — | — | — | CC1010PAG |
| Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller | 64-TQFP | 296-19578-1-ND | 7.74 | 6.97 | 6.18 | 296-19578-2-ND | 1,500 | 5738.31/M | CC1010PAGR |
| Single Chip Low Power RF Transceiver for Narrowband Systems | 32-QFN | 296-19579-1-ND◆ | 5.01 | 4.01 | 3.39 | 296-19579-2-ND◆ | 2,500 | 3105.82/M | CC1020RSSR |
| Single Chip Low Power RF Transceiver for Narrowband Systems | 32-QFN | 296-19580-1-ND◆ | 4.65 | 3.72 | 3.14 | 296-19580-2-ND◆ | 4,000 | 2880.77/M | CC1021RSSR |
| Single Chip Very Low Power RF Transmitter | 24-TSSOP | 296-19462-5-ND‡◆ | 2.69 | 2.16 | 1.68 | — | — | — | CC1050PW |
| Single Chip Very Low Power RF Transmitter | 24-TSSOP | 296-19581-1-ND | 2.69 | 2.16 | 1.68 | 296-19581-2-ND◆ | 2,500 | 1509.36/M | CC1050PWR |
| Single Chip Low Power RF Transmitter for Narrowband Systems | 20-QFN | 296-19582-1-ND | 3.19 | 2.55 | 1.99 | 296-19582-2-ND | 5,000 | 1769.99/M | CC1070RSQR |
| Single Chip Low Cost Low Power RF Transceiver | 20-QFN | 296-19583-1-ND | 3.35 | 2.68 | 2.09 | 296-19583-2-ND | 2,500 | 1875.26/M | CC1100RTRK |
| Single Chip Low Cost Low Power RF Transceiver | 20-QFN | 296-21981-1-ND◆ | 3.02 | 2.42 | 1.89 | 296-21981-2-ND | 2,500 | 1692.31/M | CC1101RTRK |
| Single Chip Low Cost Low Power RF Transmitter | 16-QFN | 296-19584-1-ND◆ | 1.80 | 1.44 | 1.12 | 296-19584-2-ND◆ | 2,500 | 1006.24/M | CC1150RSTR |
| Single Chip 2.4GHz Low Cost Low Power RF Transceiver | 48-QFN | 296-21512-1-ND◆ | 3.92 | 3.14 | 2.65 | 296-21512-2-ND◆ | 4,000 | 2430.65/M | CC2400RSUR |
| Single Chip Low Cost Low Power RF Transceiver | 20-QFN | 296-19586-1-ND◆ | 2.78 | 2.23 | 1.73 | 296-19586-2-ND◆ | 2,500 | 1555.10/M | CC2500RTRK |
| Single Chip Low Cost Low Power RF Transceiver | 16-QFN | 296-19587-1-ND | 1.62 | 1.30 | 1.01 | 296-19587-2-ND | 2,500 | 919.85/M | CC2550RSTR |
| System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU | 36-QLP | 296-21720-1-ND | 6.29 | 5.67 | 5.03 | 296-21720-2-ND | 2,500 | 4586.87/M | CC2510F32RSRPR |
| Evaluation Module Kit for CC2500 | — | 296-22903-ND‡◆ | 74.05 | — | — | — | — | — | PCC2500EMK |
| Development Kit for CC2500/CC2550DK | — | 296-23077-ND‡ | 362.85 | — | — | — | — | — | CC2500-CC2550DK |

‡ Bulk † Box ◆ RoHS Compliant

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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