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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	9.75	8.78	7.79	296-19795-2-ND	250	1864.75	TRF11151RGTPT
2.5GHz, Integrated Up-Converter	32-QFN	296-19796-1-ND	9.16	8.25	7.32	296-19796-2-ND	2,500	6683.00/M	TRF11221RMTM
2.5GHz, Integrated Up-Converter	32-QFN	296-23069-1-ND	10.08	9.08	8.05	296-23069-2-ND	250	1928.50	TRF11221RMTM
2.5GHz, 1W Power Amplifier	32-QFN	296-23070-1-ND	8.75	7.88	6.99	296-23070-2-ND	250	1673.50	TRF11212IRGZT
Dual VCO/PLL Synthesizer with IF Down-Converter	48-QFN	296-19314-1-ND	21.23	19.81	18.40	296-19314-2-ND	250	4510.25	TRF12121RGTZT
3.5GHz High Dynamic Range, Low-Noise Down-Converter	20-QFN	296-19289-1-ND	9.75	8.78	7.79	296-19289-2-ND	250	1864.75	TRF12161RGTPT
Dual VCO/PLL Synthesizer with IF Up-Converter	48-QFN	296-19290-1-ND	21.23	19.81	18.40	296-19290-2-ND	250	4510.25	TRF12212RGTZT
3.5GHz Integrated Up-Converter	32-QFN	296-19291-1-ND	10.08	9.08	8.05	296-19291-2-ND	250	1928.50	TRF12221RMTM
3.5GHz, 1W Power Amplifier	32-QFN	296-23071-1-ND	9.16	8.25	7.32	296-23071-2-ND	250	1753.25	TRF12231RMTM
2GHz Low Voltage Synthesizer	20-TSSOP	296-1969-5-ND	4.84	3.87	3.01	—	—	—	TRF2052PW
Dual-Band IQ/IF Transceiver with Dual VCO Synthesizers	56-QFN	296-19797-1-ND	9.16	8.25	7.32	296-19797-2-ND	250	1753.25	TRF24321RQTB
High-Power Dual-Band RF Front-End	40-QFN	296-21353-1-ND	14.66	13.20	11.71	296-21353-2-ND	250	2805.00	TRF24361RBTB
0.4GHz - 1.5GHz Quadrature Modulator	16-QFN	296-17198-ND	8.46	7.62	6.76	—	—	—	TRF37011RHHC
1.5GHz - 2.5GHz Quadrature Modulator	16-QFN	296-17350-ND	8.46	7.62	6.76	—	—	—	TRF37021RHHC
0.4GHz - 4.4GHz Quadrature Modulator	24-VQFN	296-23336-1-ND	13.58	12.23	10.84	296-23336-2-ND	250	2597.75	TRF3703171RGTET
PLL Frequency Synthesizer	16-TSSOP	296-16941-5-ND	5.40	4.32	3.65	—	—	—	TRF37501PW
High-Performance Integer-N PLL Frequency Synthesizer	20-QFN	296-17552-5-ND	6.00	4.80	4.05	—	—	—	TRF37501RGP
420MHz - 450MHz Single-Chip RF Transmitter	24-TSSOP	296-11056-5-ND	4.03	3.23	2.51	—	—	—	TRF4400PW
850MHz - 950MHz Single-Chip RF Transmitter	24-TSSOP	296-11057-5-ND	3.06	2.45	1.91	—	—	—	TRF4900PW
Single-Chip Multiband RF Transmitter	24-TSSOP	296-17876-5-ND	3.06	2.45	1.91	—	—	—	TRF4903PW
902MHz - 928MHz Single-Chip RF Transceiver	48-LQFP	296-14059-1-ND	6.38	5.11	4.31	296-14059-2-ND	1,000	3988.00	TRF5901PTR
850MHz - 950MHz Single-Chip RF Transceiver	48-LQFP	296-11058-ND	5.44	4.36	3.68	—	—	—	TRF6900APT
860MHz - 930MHz Single-Chip RF Transceiver	48-PQFP	296-12242-ND	5.44	4.36	3.68	—	—	—	TRF6901PT
Single-Chip Multiband RF Transceiver	48-PQFP	296-17391-ND	4.12	3.30	2.57	—	—	—	TRF6903PT
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19301-5-ND	3.38	2.70	2.10	—	—	—	TRF7900APW
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19302-5-ND	3.38	2.70	2.10	—	—	—	TRF7900PW
RFID Front End 13.56MHz	32-QFN	481-1111-1-ND	16.90	14.79	12.15	481-1111-2-ND	250	1980.00	TRF7960RHBT
RFID Front End 13.56MHz	32-QFN	481-1112-1-ND	13.93	11.94	9.95	481-1112-2-ND	3,000	5074.50/M	TRF7961RHBT
0.4GHz - 4GHz Quadrature Modulator	24-QFN	296-20731-1-ND	12.83	11.55	10.25	296-20731-2-ND	250	2454.50	TRF3703151RGTET
0.4GHz - 4GHz Quadrature Modulator	24-QFN	296-21288-1-ND	12.83	11.55	10.25	296-21288-2-ND	250	2454.50	TRF3703331RGTET
Programmable, Wideband Crest Factor Reduction Processor	256-BGA	296-20702-ND	52.50	49.00	45.50	—	—	—	GC11151ZDJ
High-Density Digital Upconverter	388-BGA	296-20745-ND	123.75	115.50	107.25	—	—	—	GC53181ZED

† Bulk ♦ RoHS Compliant

Chipcon Products from Texas Instruments RF Transceivers/Transmitters

CC1111EMK868-915 Kit: This evaluation module/USB dongle is designed to help the user to achieve objectives as quickly as possible. A CC1110DK is needed to program the CC1111 USB dongle (the CC1110DK must be ordered separately). The CC1111 868 and 915 MHz USB dongle can be used to test the communications between the CC1101/CC1150/CC1110 prototype development kits, and a PC, without having to wire up the CC1101/CC1150/CC1110 development kit to the PC.
Kit Includes: • One CC1111 USB dongle with chip antenna for 868 and 915 MHz operation
CC2420EMK Kit: CC2420 is a true single chip 2.4 GHz 802.15.4 compliant RF transceiver designed for low-power and low-voltage wireless applications. The CC2420EMK evaluation kit in combination with a CC2420 development kit is a powerful and flexible tool specifically designed to make it easy for the user to evaluate the RF performance of

the CC2420 and to minimize the time spent on evaluation.
Kit Includes: • Two CC2420 evaluation modules and two antennas. The CC2420EM are add-on daughter boards that require a CC2420DK or CC2420DBK development kit for evaluation and development.
CC2430DK Kit: The SmartRF®04DK development kit includes a number of functions and applications that allow quick testing of the RF interface and peripherals of the chip. Right out of the box, the kit can be used for range testing using the SmartRF®04DK products. The user SmartRF® Studio performs RF measurements. The radio can be easily configured to measure sensitivity, output power and other RF parameters. For prototype development the SmartRF®04DK includes a USB interface that can be used as emulator interface for the CC2430/CC2510. All I/O ports are available on pin connectors on the edge of the board to allow easy access for external applications. These connectors are also compatible with logic analyzer probes for easy debugging.

Kit Includes: • Two SmartRF®04EB • Two CC2430EM evaluation modules • Two 2.4 GHz antennas • Two USB cables • One 10-wire flat cable for using SmartRF®04EB as emulator for external target systems • Quick start guide • IAR EW8051 C-compiler with C-SPY debugger (30-30 days evaluation license)
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 and 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	7.60	6.08	5.13	—	—	—	CC1000PW
Single Chip Very Low Power RF Transceiver	28-TSSOP	296-19576-1-ND	7.60	6.08	5.13	296-19576-2-ND	2,500	4712.00/M	CC1000PWR
Single Chip Very Low Power RF Transceiver	28-XCEPT	296-19458-ND	8.80	7.04	5.94	—	—	—	CC1000YZ
Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller	64-TQFP	296-19459-ND	10.66	9.60	8.52	—	—	—	CC1010PAG
Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller	64-TQFP	296-19578-1-ND	10.66	9.60	8.52	296-19578-2-ND	1,500	7904.00/M	CC1010PAGR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19460-ND	8.90	7.12	6.01	—	—	—	CC1020RHH
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19579-1-ND	6.90	5.52	4.66	296-19579-2-ND	4,000	4278.00/M	CC1020RHSR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19461-ND	7.60	6.08	5.13	—	—	—	CC1021RHH
Single Chip Very Low Power RF Transmitter for Narrowband Systems	32-QFN	296-19580-1-ND	6.40	5.12	4.32	296-19580-2-ND	4,000	3968.00/M	CC1021RSSH
Single Chip Very Low Power RF Transmitter	24-TSSOP	296-19462-5-ND	3.71	2.97	2.31	—	—	—	CC1050PW
Single Chip Very Low Power RF Transmitter	24-TSSOP	296-19581-1-ND	3.71	2.97	2.31	296-19581-2-ND	2,500	2079.00/M	CC1050PWR
Single Chip Low Power RF Transmitter for Narrowband Systems	20-QFN	296-19463-ND	4.39	3.51	2.73	—	—	—	CC1070RGP
Single Chip Low Power RF Transmitter for Narrowband Systems	20-QFN	296-19582-1-ND	4.39	3.51	2.73	296-19582-2-ND	5,000	2438.00/M	CC1070RSQR
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-19583-1-ND	4.61	3.69	2.87	296-19583-2-ND	2,500	2583.00/M	CC1100RTRK
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-21981-1-ND	4.16	3.33	2.59	296-21981-2-ND	2,500	2331.00/M	CC1101RTRK
Single Chip Low Cost Low Power RF Transmitter	16-QFN	296-19465-ND	2.48	1.98	1.54	—	—	—	CC1150RGP
Single Chip Low Cost Low Power RF Transmitter	16-QFN	296-19584-1-ND	2.48	1.98	1.54	296-19584-2-ND	2,500	1386.00/M	CC1150RSTR
Single Chip 2.4GHz Low Cost Low Power RF Transceiver	48-QFN	296-21512-1-ND	5.40	4.32	3.65	296-21512-2-ND	4,000	3348.00/M	CC2400RSTR
2.4GHz IEEE 802.15.4/ZigBee™ Ready RF Transceiver	48-QFN	296-19585-1-ND	6.60	5.28	4.46	296-19585-2-ND	4,000	4092.00/M	CC2400RTRC
2.4GHz IEEE 802.15.4/ZigBee Ready RF Transceiver	48-QFN	296-19585-1-ND	6.60	5.28	4.46	—	—	—	CC2400RTC
2.4GHz IEEE 802.15.4/ZigBee Ready RF Transceiver	48-QFN	296-19586-1-ND	6.60	5.28	4.46	—	—	—	CC1111F32RSPR
2.4GHz IEEE 802.15.4/ZigBee RF Transceiver	28-QFN	296-22996-1-ND	5.50	4.40	3.72	296-22996-2-ND	250	893.75	CC2520RHDT
2.4GHz ZigBee Processor	48-QLP	296-23313-1-ND	13.49	12.15	10.78	296-23313-2-ND	2,500	9842.00/M	CCZAC06A1RTRC
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-19586-1-ND	3.83	3.06	2.38	296-19586-2-ND	2,500	2142.00/M	CC2500RTRK
Single Chip Low Cost Low Power RF Transceiver	16-QFN	296-19469-ND	2.48	1.98	1.54	—	—	—	CC2550RGP
Single Chip Low Cost Low Power RF Transceiver	16-QFN	296-19587-1-ND	2.23	1.79	1.39	296-19587-2-ND	2,500	1267.00/M	CC2550RSTR
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-QFN	296-23008-ND	7.20	5.76	4.86	—	—	—	CC2430F2RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-QFN	296-23009-ND	9.40	7.52	6.35	—	—	—	CC2430F4RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-QFN	296-21950-1-ND	9.08	8.18	7.25	296-21950-2-ND	2,500	6622.00/M	CC2430Z128RTRC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee w/Location Engine	48-QFN	296-21940-1-ND	10.75	9.68	8.58	296-21940-2-ND	2,500	7837.00/M	CC2431ZTRC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee w/Location Engine	48-QFN	296-21980-1-ND	10.75	9.68	8.58	296-21980-2-ND	2,500	7837.00/M	CC2431RTRC
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-21720-1-ND	8.66	7.80	6.92	296-21720-2-ND	2,500	6318.00/M	PCC2510F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22716-1-ND	2.25	1.80	1.40	296-22716-2-ND	2,500	1260.00/M	PCC2511F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22740-1-ND	8.33	7.50	6.65	296-22740-2-ND	2,500	6075.00/M	CC1110F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22884-1-ND	8.11	7.12	6.13	296-22884-2-ND	2,500	6500.00/M	CC1111F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-22556-1-ND	7.90	6.32	5.34	296-22556-2-ND	2,500	4898.00/M	CC2510F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-22557-1-ND	8.40	6.72	5.67	296-22557-2-ND	2,500	5103.00/M	CC2511F32RSPR
Evaluation Module Kit for CC1111	296-22732-ND	50.00	—	—	—	—	—	—	CC1111EMK868-915
Evaluation Module Kit for CC2420	296-22905-ND	122.40	—	—	—	—	—	—	CC2420EMK
Development Kit for CC2430	296-22912-ND	550.80	—	—	—	—	—	—	CC2430DK
Development Kit ZigBee for CC2430	296-23010-ND	1920.45	—	—	—	—	—	—	CC2430ZDK
Development Kit for CC2431	296-23004-ND	1018.99	—	—	—	—	—	—	CC2431DK
Evaluation Module Kit for CC2500	296-22903-ND	102.00	—	—	—	—	—	—	CC2500EMK
Development Kit for CC2500/CC2550DK	296-23077-ND	499.80	—	—	—	—	—	—	CC2500-CC2550DK
Evaluation Module Kit for CC2511	296-23155-ND	50.00	—	—	—	—	—	—	CC2511EMK

† 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.

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