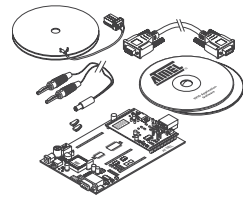


ATMEL RFID Demo Kit

The RFID application kit is designed to present the key features of various RFID products from Atmel Wireless and Microcontrollers. The included software version IDS 5 supports the following products: • U22708 on the reader side • TK5530/e5530 on the transponder side • 5551/75557 on the transponder side • TK5552 on the transponder side • TK5561/e5561 on the transponder side • U9280M on the transponder side **Kit Includes:** • Base Station Coil • Serial Cable • Demo Board • Sample Transponders



Description	EPROM (Bytes)	Digi-Key Part No.	Price Each		
			1	25	100
125kHz	224	TK5551M-PP-NDΔ	2.81	2.36	1.97
RFID Application Kit		ATA2270-EK1-ND◆	385.27	—	—

Δ Read/Write ◆ RoHS Compliant

B Smart RF Devices



Description	Package	Digi-Key Part No.	Price Each			Tape and Reel	
			1	25	100	Qty.	Pricing
UHF ASK/FSK Receiver IC, 4.5 - 5.5V, 300 - 450MHz	20-SOIC	ATA3741P2-TGQYCT-ND†◆	5.89	4.93	4.38	2,000	3833.28/M
UHF ASK/FSK Receiver IC, 4.5 - 5.5V, 300 - 450MHz	20-SOIC	ATA3741P2-TG5Y-ND◆	5.89	3.83	3.56	—	—
UHF ASK/FSK Receiver IC, 4.5 - 5.5V, 300 - 450MHz	20-SOIC	ATA3741P3-TGQYCT-ND†◆	5.89	4.93	4.38	2,000	3557.40/M
UHF ASK/FSK Receiver IC, 4.5 - 5.5V, 300 - 450MHz	20-SOIC	ATA3742P3-TGQYCT-ND†◆	6.34	5.31	4.72	2,000	3826.02/M
UHF ASK/FSK Receiver IC, 4.5 - 5.5V, 310 - 440MHz	20-SOIC	ATA3745P3-TGQYCT-ND†◆	4.60	3.86	3.43	2,000	2787.84/M
UHF ASK/FSK Receiver IC, 4.5 - 5.5V, 310 - 440MHz	20-SOIC	ATA3745P3-TG5Y-ND◆	4.60	3.01	2.79	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 - 3.6V / 4.4 - 6.6V, 315MHz	48-QFN	ATA5423-PLQWCT-ND†	4.98	4.17	3.71	4,000	3005.64/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 - 3.6V / 4.4 - 6.6V, 345MHz	48-QFN	ATA5425-PLQWCT-ND†◆	4.98	4.17	3.71	4,000	3005.64/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 - 3.6V / 4.4 - 6.6V, 434MHz / 868MHz	48-QFN	ATA5428-PLQWCT-ND†◆	4.98	4.17	3.71	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 - 3.6V / 4.4 - 6.6V, 915MHz	48-QFN	ATA5429-PLQWCT-ND†◆	4.98	4.17	3.71	4,000	3005.64/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 - 3.6V / 4.4 - 6.6V, 434MHz / 868MHz	48-QFN	ATA5811-PLHCT-ND†	6.38	5.35	4.46	4,000	4305.91/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 - 3.6V / 4.4 - 6.6V, 315MHz	48-QFN	ATA5812-PLQCT-ND†	6.38	5.35	4.46	4,000	4305.91/M
Low-IF ISM Single-Chip Transceiver IC, 2.9 - 3.6V, 2.4GHz	32-QFN	ATR2406-PNQG 86CT-ND†◆	2.78	2.07	1.81	4,000	1938.42/M
WDECT/ISM Single-Chip Transceiver IC, 3 - 4.6V, 2.4GHz	48-QFN	T2803-PLHCT-ND†	11.71	9.81	8.17	—	—
Wireless Data Micro Transmitter, 315MHz	20-TSSOP	AT86RF401U-6GS-ND	2.28	1.91	1.59	—	—
SiGe IF Receiver/Demodulator, 65 - 300MHz	16-TSSOP	T0797-6CPCCT-ND†	7.49	6.28	5.23	1,000	5052.96
SiGe IF Receiver/Demodulator, 65 - 300MHz	16-TSSOP	ATRO797-6CPCCT-ND†◆	6.72	5.62	4.69	1,000	4526.61
SiGi Universal Usable RF Power Amplifier, 3.5V, 135 - 900MHz	28-PSSOP	T0905-TSPHCT-ND†	7.03	5.89	4.91	1,000	4737.15
High Linearity SiGe Active Receiver Mixer, 5V, 800 - 1000MHz	16-TSSOP	T0780-6CPCCT-ND†	8.94	7.49	6.24	1,000	6026.53
Transceiver Base Station Board for ATA5423, 315MHz	—	ATAB5423-3-WB-ND◆	143.87	—	—	—	—
Transceiver Base Station Board for ATA5425, 345MHz	—	ATAB5425-3-WB-ND◆	143.87	—	—	—	—
Transceiver Base Station Board for ATA5428, 434MHz	—	ATAB5428-4-WB-ND◆	143.87	—	—	—	—
Transceiver Base Station Board for ATA5428, 868MHz	—	ATAB5428-8-WB-ND◆	143.87	—	—	—	—
Transceiver Base Station Board for ATA5429, 915MHz	—	ATAB5429-9-WB-ND◆	143.87	—	—	—	—
Reference Design for T5753, 315MHz	—	ATAB5753-ND	216.97	—	—	—	—
Reference Design for T5754, 434MHz	—	ATAB5754-ND	216.97	—	—	—	—
Reference Design for T5750, 868MHz	—	ATAB5750-8-ND	216.97	—	—	—	—
Reference Design for T5750, 915MHz	—	ATAB5750-9-ND	216.97	—	—	—	—
PC-Controlled Application Board for U6815M or T6816 with Dual Hex DMOS Output Driver	—	ATAB6816-ND◆	134.22	—	—	—	—
PC-Controlled Application Board for T6817 with Dual Triple DMOS Output Driver	—	ATAB6817-ND◆	134.22	—	—	—	—
PC-Controlled Application Board for T6818 with Triple Half-Bridge DMOS Driver	—	ATAB6818-ND◆	134.22	—	—	—	—
PC-Controlled Application Board for T6819 with Triple Half-Bridge DMOS Driver with PWM Function	—	ATAB6819-ND◆	134.22	—	—	—	—
RF-Module Development Board for ATR2406	—	ATR2406-DEV-BOARD-ND	304.38	—	—	—	—
Long Range RF-Module Development Board for ATR2406 / ATmega88	—	ATR2406-DEV-BOARD2-ND	304.38	—	—	—	—
Starter Kit for STK500, 315MHz	—	ATAKSTK511-3-ND	471.39	—	—	—	—
Starter Kit for STK500, 868MHz	—	ATAKSTK511-8-ND	466.71	—	—	—	—
Starter Kit for STK500, 915MHz	—	ATAKSTK511-9-ND	466.71	—	—	—	—
RAC Unidirectional Kit, 315MHz	—	ATAKSTK512-3-ND◆	239.58	—	—	—	—
RAC Unidirectional Kit, 434MHz	—	ATAKSTK512-4-ND◆	239.58	—	—	—	—
Evaluation Kit with ATR2406 and ATmega88 Boards	—	ATR2406-DEV-KIT2-ND	780.45	—	—	—	—
RF Design Kit, 868MHz	—	ATAK5750-60-N-ND	616.56	—	—	—	—
RF Design Kit, 915MHz	—	ATAK5750-61-N-ND	616.56	—	—	—	—
RF Design Kit T5754, 434MHz, 600kHz Bandwidth, with SAW Filter	—	ATAK5754-43P6-S-ND	616.56	—	—	—	—
Development Kit for AT5744U (USA)	—	ATAK4015744U-ND	546.32	—	—	—	—
Development Kit for AT86RF401U	—	AT86RF401U-EK1-ND	232.57	—	—	—	—
GPS-LNA Demoboard for Performance Evaluation	—	ATRO610-EK1-ND◆	193.12	—	—	—	—
Starter Kit for ATmega32M1 and ATmega32C1	—	ATSTK524-ND◆	58.81	—	—	—	—

† For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ◆ RoHS Compliant

AVR® Z-Link™ ZigBee™



AVR Z-Link provides an industry-leading 2.4GHz transceiver bundled with an 8-Bit RISC microcontroller (ATMEGA).

The AT86RF230 radio gives you the highest link budget of any 802.15.4 radio on the market today.

The ATMEGA series of AVR MCUs enables you to choose from 32KB to 256KB to fit the needs of your design.

Description	Package	Digi-Key Part No.	Price Each		
			1	25	100
MCU ATMEGA644 / AT86RF230	44-TQFP	ATMEGA644RZAV-10AU-ND	8.33	6.17	5.51
	44-QFN	ATMEGA644RZAV-10MU-ND	8.33	6.17	5.51
	40-DIP	ATMEGA644RZAV-10PU-ND	8.33	6.17	5.51
MCU ATMEGA644P / AT86RF230	44-TQFP	ATMEGA644RZAVP-10AU-ND	5.23	—	—
	44-QFN	ATMEGA644RZAVP-10MU-ND	5.23	—	—
MCU ATMEGA1281 / AT86RF230	64-TQFP	ATMEGA128RZAV-8AU-ND	11.52	8.93	7.61
	64-QFN	ATMEGA128RZAV-8MU-ND	11.52	8.58	7.61
MCU ATMEGA1280 / AT86RF230	100-TQFP	ATMEGA128RZBV-8AU-ND	12.24	9.28	8.09
	100-TQFP	ATMEGA128RZBV-8CU-ND	8.79	—	—
MCU ATMEGA2561 / AT86RF230	64-TQFP	ATMEGA256RZAV-8AU-ND	14.28	10.57	9.44
	64-QFN	ATMEGA256RZAV-8MU-ND	14.28	10.57	9.44
MCU ATMEGA2560 / AT86RF230	100-TQFP	ATMEGA256RZBV-8AU-ND	15.27	11.29	10.09
	100-TQFP	ATMEGA256RZBV-8CU-ND	9.58	—	—
Low-Power 2.4GHz Transceiver	32-QFN	AT86RF230-ZU-ND	4.33	3.02	2.52

ATAVRRZUSBSTICK



The AVR RZUSBSTICK consists of one USB stick with a 2.4GHz transceiver and USB connection to your PC. The AT86RF230 transceivers high sensitivity gives the longest range for wireless products while the AT90USB1287 incorporates fast USB On-The-Go.

ATAVRRZUSBSTICK-ND 28.31

ATAVRRZ541 Packet Sniffer Kit

The RZ541 Packet Sniffer Kit is the ideal platform for analyzing 802.15.4/ZigBee™ wireless networks.

Included is the basic edition of the Sensor Network Analyzer software from Daintree Networks which enables visualization, measurement and analysis of large networks.

ATAVRRZ541-ND 166.25

ATAVRRZ201 Controller Boards and Software Kit

The kit contains five 2.4GHz 802.15.4 compliant and ZigBee compatible Radio-Controller Boards equipped with ATmega1281 microcontroller and AT86RF230 transceiver. By offering additional PCB's, the RZ201 kit complements the RZ200 kit, enabling demonstration of larger wireless networks based on 802.15.4/ZigBee™.

ATAVRRZ201-ND 166.25

ATAVRRZRAVEN 2.4GHz Evaluation Kit

The RZ RAVEN 2.4GHz Evaluation and Starter Kit enables development, debugging and demonstration of a wide range of low power wireless applications including IEEE 802.15.4™, 6LoWPAN and ZigBee™ networks. The RZ RAVEN kit comprises two AVR Raven boards (AVRRAVEN) with 2.4GHz transceiver, on board picoPower™ AVR application processors and LCD display, and one USB stick (AVRRZUSBSTICK) with a 2.4GHz transceiver for USB connection to your PC.

ATAVRRZRAVEN-ND 71.87

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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Description	Package	Digi-Key Part No.	Price Each			Tape and Reel†	
			1	25	100	Qty.	Pricing
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-QFN	T7024-PGPM-ND		1361.24/1,500		—	—
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-QFN	T7024-PGOM80CT-ND†	1.29	.97	.85	—	—
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-SSOP	T7024-TRQYCT-ND†	1.29	.97	.85	4,000	907.50/M
Demo Board for T7024PGM	—	DEMOBOARD-T7024PGM-ND	241.40	—	—	—	—

† For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

Cellular/Infrastructure ICs Devices

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†	
			1	25	100	Qty.	Pricing
Direct Quadrature Modulator, 5V, 800MHz ~ 2500MHz	16-TSSOP	T0790-6CPCCT-ND	15.98	13.38	11.15	1,000	10774.57

† For Tape and Reel part number, change CT-ND to TR-ND

Corded Phone ICs Devices

Description	Digi-Key Part No.	Price Each
Demo Board for U4089B	DEMOBOARD-U4089B-ND	241.40
Demo Board for U4090B.1	DEMOBOARD-U4090B.1-ND	241.40
Demo Board for U4091BM	DEMOBOARD-U4091BM-ND	241.40

Cordless Phone ICs Devices

Description	Package	Digi-Key Part No.	Price Each			Tape and Reel†	
			1	25	100	Qty.	Pricing
ISM Front End IC, DECT, 2.4GHz	20-QFN	T7026-PGPCCT-ND†	3.91	3.27	2.73	1,500	2631.76/M
Demo Board for ATR2806	—	DEMOBOARD-ATR2806-ND	241.40	—	—	—	—

† For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Automotive Control Devices

Description	Package	Digi-Key Part No.	Price Each			Tape and Reel†	
			1	25	100	Qty.	Pricing
125kHz Transmitter for TPM, 8.0V ~ 24.0V	20-QFN	ATA5275-PGPCIT-ND†	3.79	3.04	2.36	1,500	2147.51/M
Ultra Low Power 125kHz 3D Wake Up Receiver with RSSI	8-TSSOP	ATA5282-6APHCCT-ND†	2.98	2.50	2.22	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGQCT-ND†	4.22	3.53	2.95	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGS-ND	4.22	3.53	2.95	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P6-TGQCT-ND†	4.22	3.53	2.95	—	—
UHF ASK/FSK Receiver, 5V ~ 20V, 300MHz ~ 450MHz for ASK or FSK	20-SOIC	T5743P6-TGS-ND	4.22	3.53	2.95	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5744N-TGQCT-ND†	3.43	2.88	2.40	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SSOP	T5744N-TK-ND	3.28	2.75	2.29	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGQCT-ND†	4.03	3.38	2.81	2,000	2715.97/M
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGS-ND	4.03	3.38	2.81	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5761-TGQCT-ND†	4.03	3.38	2.81	2,000	2715.97/M
UHF ASK/FSK Receiver, 5V ~ 20V, 902MHz ~ 928MHz	20-SOIC	T5761-TGS-ND	4.03	3.38	2.81	—	—
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P2FL-ND	4.22	3.53	2.95	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 315MHz ~ 433.92MHz	20-SOIC	U3741BM-P3FLG3CT-ND†	4.22	3.53	2.95	2,000	2842.29/M
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P3FL-ND	4.90	3.40	2.51	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3742BM-P3FL-ND	4.41	3.70	3.09	—	—
Stand-Alone Antenna Driver	28-QFN	ATA5278-PKQICT-ND†	5.43	4.55	4.05	4,000	3281.52/M
Interface for 125kHz Wake-Up Function	8-TSSOP	ATA5283P-6APJCT-ND†	2.17	1.74	1.36	500	627.63
Reference Design for T5744, 315MHz	—	ATAB5744-N3-ND	216.97	—	—	—	—
Receiving Board for T5744, 433.92MHz, No SAW Filter	—	ATAB5744-N4-ND	216.97	—	—	—	—
Reference Design for T5744, 315MHz	—	ATAB5744-S3-ND	216.97	—	—	—	—
Reference Design for T5744, 433MHz	—	ATAB5744-S4-ND	216.97	—	—	—	—

◆ RoHS Compliant † For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

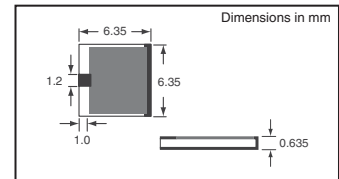


CHF2525CNT Series 9GHz 40 Watt Termination Chips



Features: • DC to 9GHz • Low VSWR • Aluminum Nitride ceramic • Terminal for lead attachment **Specifications:** • Substrate: ALN • Resistive Film: Thick Film • Tolerance: ±5% **Absolute Ratings:** • Power: 40W • Frequency: 9GHz • VSWR: 1.2 Maximum **Applications:** • Isolators • RF amplifiers

Resistance Ω	Terminals	Digi-Key Part No.	1	Price Each	50	Bourns Part No.
50	NiAu	CHF2525CNT500LX-ND	4.99	4.54	3.91	CHF2525CNT500LX
50	NiSn	CHF2525CNT500LW-ND	4.99	4.54	3.91	CHF2525CNT500LW

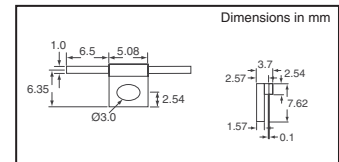


CHF3020CBF Series 10 Watt Power RF Terminations/Resistors



Features: • DC to 4GHz • Flanged model • Low VSWR **Specifications:** • Substrate: Beo • Resistive Film: Thick Film • Tab: Ag • Cover Substrate: AL203 • Mounting Flange: Copper plated with Nickel • Tolerance: ±5% **Absolute Ratings:** • Power: 10W • Frequency: 4.0GHz • VSWR: 1.35 Maximum • Capacitance: 0.8pF **Applications:** • High power RF transmission

Resistance Ω	Function	Digi-Key Part No.	1	Price Each	50	Bourns Part No.
50	Termination Resistor	CHF3020CBF500L-ND	12.58	11.44	9.84	CHF3020CBF500L
100	Resistor	CHF3020CBF101R-ND	12.58	11.44	9.84	CHF3020CBF101R

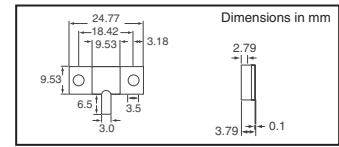


CHF9838CNF Series 250 Watt Power RF Flanged Chip Termination



Features: • DC to 2.2GHz • Flanged model • Low VSWR • Aluminum Nitride ceramic **Specifications:** • Substrate: ALN • Resistive Film: Thick Film • Tab: Ag • Tab Attachment: Brazed with epoxy encapsulation • Mounting Flange: Copper plated with Nickel • Tolerance: ±5% **Absolute Ratings:** • Power: 250W • Frequency: 2.2GHz • VSWR: 1.10 Maximum **Applications:** • High power RF transmission

Resistance Ω	Function	Digi-Key Part No.	1	Price Each	50	Bourns Part No.
50	Termination	CHF9838CNF500L-ND	19.97	18.15	15.61	CHF9838CNF500L



C-MAX® Antennas



RF Technology Specialist

Application	Number of Turns	Inductance	Unloaded Q (Min.)	Digi-Key Part No.	Price Each			C-Max Part No.
					1	10	100	
Watch	228	985H	55	561-1002-ND	1.83	1.72	1.15	CMA-60-19
Watch	203	985H	50	561-1003-ND	1.85	1.71	1.14	CMA-60-24
Table Clock	147	1.5mH	120	561-1004-ND	1.35	1.28	.98	CMA-60-60
Wall Clock	139	1.5mH	110	561-1001-ND	1.48	1.36	1.02	CMA-60-100
Watch	188	2.33mH	100	561-1019-ND	1.44	1.35	.96	CMA-MF-60

Test Equipment

Description	Digi-Key Part No.	Price Each	C-Max Part No.
Time Signal Generator for UTC	561-1018-ND	399.30	TSG100
Loop Antenna for TSG400/800, 5-10 Meters	561-1000-ND	286.77	11A
Level Interface for TSG800/400 to custom application. Provides Time signal connection	561-1009-ND	129.95	DAT100
Time Signal Generator for UTC Application Development	561-1011-ND	5953.19	TSG800

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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