

NORDIC SEMICONDUCTOR 2.4GHz, Sub-2.4GHz, & Bluetooth ICs



RoHS Compliant This page of product is compliant.

ULTRA LOW POWER 2.4GHZ RF TRANSCIEVER IC

Features:

- On-air compatible in 250kbps and 1Mbps with nRF2401A, nRF2402, nRF24E1 and nRF24E2
- 5V tolerant inputs

Applications:

- PC peripherals
- Gaming
- Sports and fitness
- Consumer electronics

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	RF Channels	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity @ 2Mbps (dBm)	Power Down Mode (nA)	Standby Current (µA)	Supply Voltage	Price Each		
										1	10	50
949-NRF24L01P-T	nRF24L01P-T	QFN-20	126	2	-18	-82	900	26	1.9-3.6	3.60	3.00	2.70

2.4GHZ RF SYSTEM ON CHIP

Features:

- Microcontroller: 8051 compatible
- 6-12 bit ADC

Applications:

- PC peripherals
- Gaming
- Sports and fitness
- Consumer electronics

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	CPU (bits)	CPU Bandwidth (MHz)	GPIO	Memory (kB)	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity @ 2Mbps (dBm)	Power Down Mode (nA)	Standby Current (µA)	Supply Voltage	Price Each		
													1	10	50
With Flash Memory															
949-NRF24LE1F1624T	nRF24LE1-F16Q24-T	QFN-24	8	16	7	16	2	-18	-82	500	1	1.9-3.6	6.96	5.80	5.22
949-NRF24LE1F1632TS	nRF24LE1-F16Q32-T	QFN-32	8	16	15	16	2	-18	-82	500	1	1.9-3.6	6.96	5.80	5.22
949-NRF24LE1F1648T	nRF24LE1-F16Q48-T	QFN-48	8	16	31	16	2	-18	-82	500	1	1.9-3.6	7.68	6.40	5.76
With One Time Programmable (OTP) Memory															
949-NRF24LE1O1724T	nRF24LE1-O17Q24-T	QFN-24	8	16	7	16	2	-18	-82	500	1	1.9-3.6	4.89	4.08	3.67
949-NRF24LE1O1732T	nRF24LE1-O17Q32-T	QFN-32	8	16	15	16	2	-18	-82	500	1	1.9-3.6	4.89	4.08	3.67
949-NRF24LE1O1748T	nRF24LE1-O17Q48-T	QFN-48	8	16	31	16	2	-18	-82	500	1	1.9-3.6	5.70	4.75	4.28

2.4GHZ RF System On Chip with USB

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	CPU (bits)	CPU Bandwidth (MHz)	GPIO	Memory (kB)	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity @ 2Mbps (dBm)	Power Down Mode (nA)	Standby Current (µA)	Supply Voltage	Price Each		
													1	10	50
With Flash Memory															
949-NRF24LU1PF1632T	nRF24LU1P-F16Q32-T	QFN-32	8	16	6	16	2	-18	-82	500	1	4-5.25	6.96	5.80	5.22
949-NRF24LU1PF3232T	nRF24LU1P-F32Q32-T	QFN-32	8	16	6	32	2	-18	-82	500	1	4-5.25	7.68	6.40	5.76
With One Time Programmable (OTP) Memory															
949-NRF24LU1PO1732T	nRF24LU1P-O17Q32-T	QFN-32	8	16	6	16	2	-18	-82	500	1	4-5.25	4.89	4.08	3.67

2.4GHZ RF AUDIO STREAMER ICs

Features:

- Low cost, low power 2.4GHz RF solution for streaming uncompressed CD quality audio
- Embedded custom protocol stack for audio streaming based on Adaptive Frequency Hopping (AFH) for optimal co-existence performance
- I2S interface for direct audio interfacing with an external ADC/DAC

Applications:

- Gaming microphones
- Home karaoke microphones
- Subwoofers

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	Latency (ms)	Resolution (bits)	Mono Audio Rate (kHz)	Transmitter Output Max (dBm)	Receiver Sensitivity (dBm)	Supply Voltage Max (V)	Price Each		
									1	10	50
949-NRF2460-T	nRF2460-T	QFN-36	20	16	32	-12	-80	3.3	4.38	3.65	3.29

ANT RF ICs

Features:

- Simple to complex network topologies: Peer-to-peer, star, tree and practical mesh

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	Channels	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity (dBm)	Standby Current (µA)	Supply Voltage	Price Each		
									1	10	50
949-NRF24AP21CH32T	nRF24AP2-1CHQ32-T	QFN-32	1	1	+4	-85	0.5	1.9-3.6	6.96	5.80	5.22
949-NRF24AP28CHC32R7	nRF24AP2-8CHC32-R7	QFN-32	8	1	+4	-85	0.5	1.9-3.6	7.44	6.20	5.58
949-NRF24AP28CH32T	nRF24AP2-8CHQ32-T	QFN-32	8	1	+4	-85	0.5	1.9-3.6	7.44	6.20	5.58

ANT RF ICs with USB Controller

For quantities greater than listed, call for quote.

949-NRF24AP2USB32T	nRF24AP2-USBQ32-T	QFN-32	8	1	+4	-85	500	1.9-3.6	8.04	6.70	6.03
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SUB 1-GHZ RF

Features:

- Low cost single-chip 433/868/915MHz GFSK RF transceiver IC
- On-air compatible with Nordic nRF9E5 RF SoC

Applications:

- Alarm and security systems
- Home and industrial automation
- Keyless entry
- RF ID

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity (dBm)	Standby Current (µA)	Supply Voltage	Price Each			
								1	10	50	
949-NRF905	nRF905	QFN-32	50	10	-100	2.5	1.9-3.6	4.50	3.75	3.38	
Development Kits											
Description											
949-NRF905-EK868/915	nRF905-EVKIT-868/915	nRF905 Evaluation Kit - 868/915MHz version							299.00	-	-
949-NRF905-EVKIT-433	nRF905-EVKIT-433	nRF905 Evaluation Kit - 433MHz version							312.50	-	-

SUB 1-GHZ RF SYSTEM ON CHIP

Features:

- Microprocessor: Synopsys DW8051 MacroCell

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	CPU	Program Memory (kB)	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity (dBm)	Standby Current (µA)	Supply Voltage	Price Each		
										1	10	50
949-NRF9E5	nRF9E5	QFN-32	8051	4	50	10	-100	2.5	1.9-3.6	5.70	4.75	4.28
Development Kits												
Description												
949-NRF9E5-EK868/915	nRF9E5-EVKIT-868/915	nRF9E5 Evaluation Kit - 868/915MHz version							399.00	-	-	
949-NRF9E5-EVKIT-433	nRF9E5-EVKIT-433	nRF9E5 Evaluation Kit - 433MHz version							400.00	-	-	

BLUETOOTH LOW ENERGY

Features:

- Fully qualified Bluetooth® v4.0 low energy Connectivity IC with integrated Radio, Link Layer, and Host stack
- Optimized for Peripheral (Slave) role operation
- Fully integrated, low tolerance 32kHz RC oscillator eliminating the need for external 32kHz crystals
- Simple serial interface (ACI) supporting a range of different external application microcontrollers
- Includes temperature sensor

Applications:

- Mobile phone accessories
- Proximity tags and watches
- Sports, fitness, and healthcare sensors
- PC peripherals
- Consumer electronics (CE) remote controls
- Home and industrial automation

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Nordic Part No.	Package	Data Rate Max (Mbps)	Transmitter Output Max (dBm)	Receiver Sensitivity (dBm)	Standby Current (µA)	Supply Voltage	Price Each		
								1	10	50
949-NRF8001-R2Q32-T	nRF8001-R2Q32-T	QFN-32	1	4	-87	0.5	1.9-3.6	4.56	3.80	3.42



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