BLUETOOTH RF MODULES

Panasonic

RoHS Compliant Available
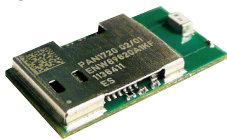
PAN1720

Features:
- Frequency: 2.4 GHz
- Encryption: Available
- Network Size: 8 Nodes
- Battery Life: Days
- Speed: Up to 3 MBit/s (air, gross)

Applications:
- 2.4GHz Bluetooth low energy systems

- Proprietary 2.4GHz systems
- Human interface devices
- Sports and leisure equipment
- Mobile phone accessories
- Consumer electronics
- USB Dongles
- Health care and medical

Bluetooth modules are based on IEEE 802.15.1 and was developed for the purpose of sending larger amounts of data quickly from computers to PDAs to cell phones or other portable handheld devices. Key features include high data rate, frequency hopping, very small form factor and modest power consumption.

Mfg. Part No.	Receive Sensitivity	Data Rate	Stock No.	Tape Cut 1-9+
Bluetooth 2.0 + EDR - Class 2				
● ENW-89815A3KF	-86dBm	3Mbps	**58T4669**	---
Bluetooth 4.0 - Class 1, Class 2				
● ENW-89829A2KF	-93dBm	3Mbps	**49W8295**	---
● ENW-89823A2KF	-93dBm	3Mbps	**49W8292**	---
● ENW-89823C2KF	-93dBm	3Mbps	**49W8293**	---
● ENW-89829C2KF	-93dBm	3Mbps	**49W8296**	---
● ENW-89842A2KF	-93dBm	3Mbps	**64W2477**	---
Bluetooth 4.0 - Class 2				
● ENW-89837A3KF	-88dBm	3Mbps	**64W2471**	3.33
● ENW-89846A1KF	-93dBM	10Kbps	**51X2287**	7.34
● ENW-89835A1KF	-93dBm	3Mbps	**49W8298**	---
● ENW-89835A3KF	-93dBm	3Mbps	**64W2469**	---
● ENW-89820A1KF	-96dBm	3Mbps	**49W8291**	---
● ENW-89820A3KF	-96dBm	3Mbps	**43W5821**	---

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BLUETOOTH / SERIAL ADAPTERS

MICROCHIP

These adapters and dongles offer users a quick solution to add Bluetooth to a device with RS-232 or USB connectivity. Smaller than a business card, easily attaches to RS232 or 422 serial ports via DB9 male or female connector. Often no software configuration is needed, just plug it on and start connecting.
Three connection modes are available:
Slave Mode - Bluetooth clients, such as Palm/Pocket PC PDA's, laptops, scanners, cellphones directly connect via Bluetooth Serial Port Profile, creating a Virtual COM port on the client.
Instant Cable - matched pair of modules link to each other for a wireless cable replacement.
Master Modes - Modules can automatically (or manually via software control codes) discover and connect to other Bluetooth SPP devices in master mode. Can also trigger on incoming data and auto disconnect when data transfer is complete to minimize power.
Suffix "M" - male connector; Suffix "F" - female connector

Mfg. Part No.	Data Rate	Signal Range	Stock No.	Price Each 1-9+
Bluetooth 2.1 + EDR - Class 1				
● RN-240F	464Kbps	100m	**06W3270**	61.15
● RN-240M	464Kbps	100m	**06W3271**	---

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Frequency/Voltage
The **LM2907 and LM2917** devices are monolithic frequency-to-voltage converters with a high gain op amp designed to operate a relay, lamp, or other load when the input frequency reaches or exceeds a selected rate. The tachometer uses a charge pump technique and offers frequency doubling for lowripple, full-input protection in two versions (8-pin LM2907 and LM2917), and its output swings to ground for a zero frequency input.

Mfg. Part No.	Frequency	Case Style	Supply Voltage	Linearity	Stock No.	Price Each 1-9+
Frequency/Voltage						
● LM2907N-8/NOPB	10kHz	DIP-8	28V	0.3%	**41K4462**	---
● LM2907M-8/NOPB	10kHz	SOIC-8	28V	0.3%	**41K4458**	1.65
● LM2907N/NOPB	5kHz	DIP-14	28V	0.3%	**41K4463**	1.58
● LM2917N/NOPB	5kHz	DIP-14	28V	0.3%	**41K4469**	---
● LM2917N-8/NOPB	5kHz	DIP-8	±28V	1%	**41K4468**	---
● LM2917M/NOPB	5kHz	SOIC-14	28V	0.3%	**41K4465**	---
● LM2917M-8/NOPB	5kHz	SOIC-8	±28V	0.3%	**41K4464**	0.33

PIM_5518611

LOGIC BUFFERS AND TRANSCEIVERS

RoHS Compliant Available

TEXAS INSTRUMENTS
Authorized Distributor

Buffers and line drivers are designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters.

LOGIC BUFFERS AND TRANSCEIVERS (CONT.)

Mfg. Part No.	Case Style	Supply Voltage	Stock No.	Tape Cut 1-9+
Buffer				
● SN74LVC1G125DRLR	SOT-553-5	1.65 V-5.5 V	**01X3093**	0.41
● SN74LVTH125PW	TSSOP-14	2.7 V-3.6 V	**98K0496**	---
Buffer, Driver				
● SN74LVC06APWR	TSSOP-14	1.65 V-3.6 V	**33X1412**	---
Buffer, Schmitt Trigger				
● SN74AUP1G17DBVR	SOT-23-5	800 mV-3.6 V	**33X1388**	---
Buffer / Driver				
● SN74AUP1G07DCKR	SC-70-5	800 mV-3.6 V	**33X1384**	0.03
Buffer / Line Driver				
● SN74HC365N	DIP-16	2 V-6 V	**50R6465**	---
● SN74AC244N	DIP-20	2 V-6 V	**50R5842**	0.11
● SN74LVC1G240DCKR	SC-70-5	1.65 V-5.5 V	**33X1420**	0.36
● SN74AHC1G126DCKR	SC-70-5	2 V-5.5 V	**01X3056**	0.44
● SN74HC241DW	SOIC-20	2 V-6 V	**98K0378**	---
● SN74LVC244ADBR	SSOP-20	1.65 V-3.6 V	**13M5302**	0.04
● SN74HC125PWR	TSSOP-14	2 V-6 V	**33X1402**	---
● SN74ABT125PW	TSSOP-14	4.5 V-5.5 V	**50R5697**	0.88
● SN74AC244PWR	TSSOP-20	2 V-6 V	**01X3048**	0.26
● SN74HC244PW	TSSOP-20	2 V-6 V	**26M3291**	---
● SN74ABT541BPWR	TSSOP-20	4.5 V-5.5 V	**01X3041**	---
● SN74HCT541PWR	TSSOP-20	4.5 V-5.5 V	**01X3074**	---
Transceiver				
● SN74LV245ADW	SOIC-20	2 V-5.5 V	**50R6728**	---
Transceiver, Non Inverting				
● 74ACT16245DGGR	TSSOP-48	4.5 V-5.5 V	**01X3182**	---

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OCTAL BUS TRANSCEIVER

RoHS Compliant Available

TEXAS INSTRUMENTS
Authorized Distributor

- Inputs Accept Voltages to 5.5 V
- Max tpd of 8 ns at 5 V
- Inputs Are TTL-Voltage Compatible

This octal bus transceiver is designed for asynchronous two-way communication between data buses. The control-function implementation minimizes external timing requirements.

Mfg. Part No.	Case Style	Supply Voltage	Stock No.	Price Each 1-9+
Transceiver				
● SN74ACT245DW	SOIC-20	4.5 V-5.5 V	**98K0224**	1.25

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DECODERS / ENCODERS

RoHS Compliant Available

TEXAS INSTRUMENTS
Authorized Distributor

SN74LS47D feature active-low outputs designed for driving, common-anode LEDs or incandescent indicators directly.
CD74HC4511M have standard-size output transistors, but are capable of sourcing (at standard VOH levels) up to 7.5 mA at 4.5 V.
CD4511BNSR combine the low quiescent power dissipation and high noise immunity features of RCA CMOS with n-p-n bipolar output transistors capable of sourcing up to 25 mA.
CD4028BM96 are BCD-to-decimal or binary-to-octal decoders consisting of buffering on all 4 inputs, decoding-logic gates, and 10 output buffers. High drive capability is provided at all outputs to enhance dc and dynamic performance in high fan-out applications.
CD74HC137E are high speed silicon gate CMOS decoders well suited to memory address decoding or data routing applications. Both circuits feature low power consumption usually associated with CMOS circuitry, yet have speeds comparable to low power Schottky TTL logic.
SN74HC139 is designed for high-performance memory-decoding or data-routing applications requiring very short propagation delay times. In high-performance memory systems, this decoder can minimize the effects of system decoding.

Mfg. Part No.	Case Style	Outputs	Supply Voltage	Stock No.	Tape Cut 1-9+
BCD to 7 Segment Decoder / Driver					
● SN74LS47D	SOIC-16	7	4.75 V-5.25 V	**50R6572**	---
BCD to 7 Segment Latch / Decoder / Driver					
● CD74HC4511M	SOIC-16	7	2 V-6 V	**50R5451**	0.27
● CD4511BNSR	SOIC-16	7	3 V-18 V	**01X2946**	0.47
BCD to Decimal Decoder					
● CD4028BM96	SOIC-16	10	3 V-18 V	**01X2934**	---
Decoder / Demultiplexer					
CD74AC138E...	DIP-16	8	1.5 V-5.5 V	**10WX7913**	0.09
● CD74HC137E	DIP-16	8	2 V-6 V	**50R5334**	---
● SN74LVC139APWR	TSSOP-16	4	1.65 V-3.6 V	**33X1429**	0.46
● SN74LV138APWR	TSSOP-16	8	2 V-5.5 V	**33X1434**	---
● SN74HC139PWR	TSSOP-16	8	2 V-6 V	**33X1404**	---

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