

Image may be representation.
See specifications for product details.



BLUENRG-232

Manufacturer Part Number	BLUENRG-232
Manufacturer	STMicroelectronics
Allelco Part Number	32D-BLUENRG-232
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC RF TXRX+MCU BLUETOOTH 32VFQFN
Package	32-VFQFN Exposed Pad
Data sheet	BlueNRG-1, -2 BLE Stack Programming Manual.pdf BLUENRG-2 Datasheet.pdf BlueNRG-2 Flyer.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

BLUENRG-232 - STMicroelectronics.New Original in Stock. Download Linear Technology BLUENRG-232 datasheet/specifications on AllelcoElec.com.
Request a quote for BLUENRG-232, please send us email: info@allelco.com

Specifications

BLUENRG-232 Tech Specifications

BLUENRG-232 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tape & Reel (TR)
Voltage - Supply	1.7V ~ 3.6V	Operating Temperature	-40°C ~ 105°C
Type	TxRx + MCU	Mounting Type	Surface Mount
Supplier Device Package	32-QFN (5x5)	Modulation	GFSK
Series	BlueNRG	Memory Size	256kB Flash, 24kB RAM
Serial Interfaces	I ² C, SPI, UART	GPIO	15
Sensitivity	-88dBm	Frequency	2.4GHz
RF Family/Standard	Bluetooth	Data Rate (Max)	1Mbps
Protocol	Bluetooth v5.0	Current - Transmitting	14mA ~ 28mA
Power - Output	8dBm	Current - Receiving	14.5mA
Package / Case	32-VFQFN Exposed Pad	Base Product Number	BLUENRG

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics BLUENRG-232

Product Attribute				
Part Number	BLUENRG-232	BLUENRG-234N	BLUENRG-248	BLUENRG-355AC
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Memory Size	256kB Flash, 24kB RAM	-	256kB Flash, 24kB RAM	256kB Flash, 64kB RAM
Protocol	Bluetooth v5.0	Bluetooth v5.0	Bluetooth v5.0	Bluetooth v5.2
Current - Receiving	14.5mA	7.7mA ~ 14.5mA	7.7mA ~ 14.5mA	3.4mA
Sensitivity	-88dBm	-88dBm	-88dBm	-104dBm
RF Family/Standard	Bluetooth	Bluetooth	Bluetooth	Bluetooth
Package / Case	32-VFQFN Exposed Pad	34-XFBGA, WLCSP	48-VFQFN Exposed Pad	32-VFQFN Exposed Pad
Data Rate (Max)	1Mbps	1Mbps	2Mbps	2Mbps
Serial Interfaces	I ² C, SPI, UART	SPI, UART	I ² C, SPI, UART	ADC, GPIO, I ² C, I ² S, PDM, SPI, USART
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V
Supplier Device Package	32-QFN (5x5)	34-WLCSP (2.66x2.56)	48-QFN (6x6)	32-QFN (5x5)
Modulation	GFSK	GFSK	GFSK	GFSK
GPIO	15	14	15	32
Type	TxRx + MCU	TxRx + MCU	TxRx + MCU	TxRx + MCU
Frequency	2.4GHz	2.4GHz ~ 2.4835GHz	2.4GHz	2.4GHz ~ 2.4835GHz
Base Product Number	BLUENRG	BLUENRG	BLUENRG	BLUENRG
Operating Temperature	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 85°C (TA)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Series	BlueNRG	BlueNRG	BlueNRG	BlueNRG
Power - Output	8dBm	8dBm	10dBm	8dBm
Current - Transmitting	14mA ~ 28mA	6.6mA ~ 28.8mA	6.6mA ~ 28.8mA	4.3mA

BLUENRG-232 Datasheet PDF

Download BLUENRG-232 pdf datasheets and STMicroelectronics documentation for BLUENRG-232 - STMicroelectronics.

HTML Datasheet



BlueNRG-1, -2 BLE Stack Programming Manual.pdf





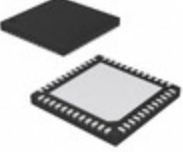

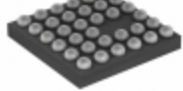



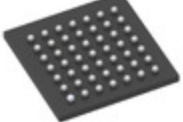
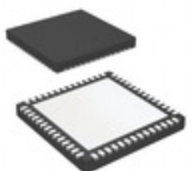
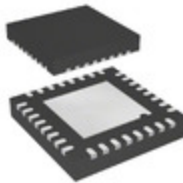
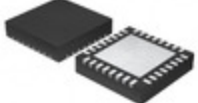
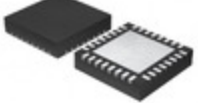
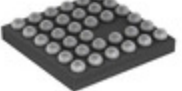

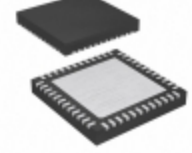
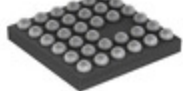
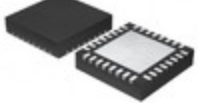
BLUENRG-2 Datasheet.pdf



BlueNRG-2 Flyer.pdf

Customers Also Interested in

Recommended Products

					
BLUENRG-234N STMicroelectronics BLUETOOTH? LOW ENERGY WIRELESS N	BLU30/12 LUMILEDS	BLUENRG-248 STMicroelectronics IC RF TXRX+MCU BLUETOOTH 48VFQFN	BLUENRG-355AC STMicroelectronics PROGRAMMABLE BLUETOOTH LOW ENERG	BLUENRG-234 STMicroelectronics IC RF TXRX+MCU BLUETOOTH 34XFBGA	BLUENRG-345MC STMicroelectronics PROGRAMMABLE BLUETOOTH LOW
					
BLUENRG-355MC STMicroelectronics IC RF TXRX+MCU BLUETOOTH 48QFN	BLUENRG-134 STMicroelectronics IC RF TXRX+MCU BLUETOOTH 34XFBGA	BLUENRG-345VC STMicroelectronics PROGRAMMABLE BLUETOOTH LE 5.2 WI	CC2538SF53RTQR Texas Instruments IC RF TXRX+MCU 802.15.4 56VFQFN	BLUENRG-MSQTR STMicroelectronics IC RF TXRX+MCU BLUETOOTH 32VFQFN	BLUENRGQTR STMicroelectronics IC RF TXRX+MCU BLUETOOTH 32VFQFN
					
BLUENRG-345AC STMicroelectronics PROGRAMMABLE BLUETOOTH LE 5.2 WI	BLUENRGCS STMicroelectronics IC RF TXRX+MCU BLUETOOTH 34XFBGA	CC1100RTKG3 Texas Instruments IC RF TXRX ISM<1GHZ 20VFQFN	NRF52832-QFAB-R7 Nordic Semiconductor ASA IC RF TXRX+MCU BLUETOOTH 48VFQFN	BLUENRG-MSCSP STMicroelectronics IC RF TXRX+MCU BLUETOOTH 34XFBGA	BLUENRG-132 STMicroelectronics IC RF TXRX+MCU BLUETOOTH 32VFQFN

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

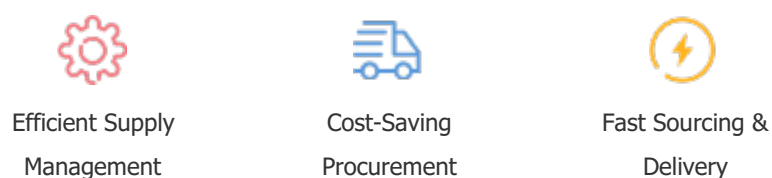
Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Phone
+00852 9146 4856

Email
info@allelco.com

Certifications & Memberships



View More