



Image may be representation.
See specifications for product details.



BLUENRG-355MC

Manufacturer Part Number	BLUENRG-355MC
Manufacturer	STMicroelectronics
Allelco Part Number	32D-BLUENRG-355MC
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC RF TXRX+MCU BLUETOOTH 48QFN
Package	48-TFQFN Exposed Pad
Data sheet	BLUENRG-355MC.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

BLUENRG-355MC - STMicroelectronics.New Original in Stock. Download Linear Technology BLUENRG-355MC datasheet/specifications on AllelcoElec.com.
Request a quote for BLUENRG-355MC, please send us email: info@allelco.com

Specifications

BLUENRG-355MC Tech Specifications
BLUENRG-355MC - 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	48-QFN (6x6)	Modulation	GFSK
Series	BlueNRG	Memory Size	256kB Flash, 64kB RAM
Serial Interfaces	I ² C, SPI	GPIO	32
Sensitivity	-97dBm	Frequency	2.4GHz ~ 2.4835GHz
RF Family/Standard	Bluetooth	Data Rate (Max)	2Mbps
Protocol	Bluetooth v5.1	Current - Transmitting	4.3mA
Power - Output	8dBm	Current - Receiving	3.4mA
Package / Case	48-TFQFN Exposed Pad	Base Product Number	BLUENRG

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics BLUENRG-355MC

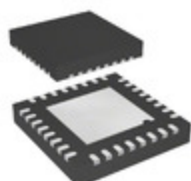
Product Attribute				
Part Number	BLUENRG-355MC	BLUENRG-345MC	BLUENRG-MSQTR	CC8530RHAR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	Texas Instruments
Operating Temperature	-40°C ~ 105°C	-40°C ~ 105°C	-40°C ~ 85°C	-40°C ~ 85°C
Power - Output	8dBm	8dBm	8dBm	11dBm
Data Rate (Max)	2Mbps	2Mbps	1Mbps	5Mbps
Base Product Number	BLUENRG	BLUENRG	BLUENRG	CC8530
Type	TxRx + MCU	TxRx + MCU	TxRx + MCU	TxRx + MCU
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
GPIO	32	32	-	15
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Memory Size	256kB Flash, 64kB RAM	256kB Flash, 64kB RAM	64kB Flash, 12kB RAM	-
Current - Transmitting	4.3mA	4.3mA	5.8mA ~ 28.8mA	-
Protocol	Bluetooth v5.1	Bluetooth v5.2	Bluetooth v4.1	-
Supplier Device Package	48-QFN (6x6)	48-QFN (6x6)	32-QFN (5x5)	40-VQFN (6x6)
Modulation	GFSK	GFSK	GFSK	2FSK, 8FSK
Serial Interfaces	I ² C, SPI	I ² C, SPI	SPI	I ² C, I ² S, SPI
RF Family/Standard	Bluetooth	Bluetooth	Bluetooth	General ISM > 1GHz
Voltage - Supply	1.7V ~ 3.6V	1.7V ~ 3.6V	1.7V ~ 3.6V	2V ~ 3.6V
Sensitivity	-97dBm	-97dBm	-88dBm	-90dBm
Current - Receiving	3.4mA	3.4 mA	7.3mA ~ 14.5mA	-
Frequency	2.4GHz ~ 2.4835GHz	2.4GHz ~ 2.4835GHz	2.4GHz	2.4GHz
Series	BlueNRG	BlueNRG	BlueNRG	PurePath™ Wireless
Package / Case	48-TFQFN Exposed Pad	48-TFQFN Exposed Pad	32-VFQFN Exposed Pad	40-VFQFN Exposed Pad

Customers Also Interested in

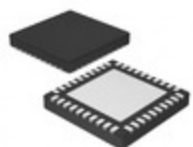
Recommended Products



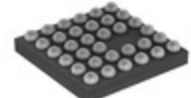
BLUENRG-345MC
STMicroelectronics
PROGRAMMABLE BLUETOOTH LOW



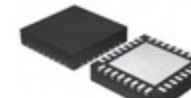
BLUENRG-MSQTR
STMicroelectronics
IC RF TXRX+MCU BLUETOOTH



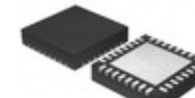
CC8530RHAR
Texas Instruments
IC RF TXRX+MCU ISM>1GHZ



BLUENRGCS
STMicroelectronics
IC RF TXRX+MCU BLUETOOTH



BLUENRGQTR
STMicroelectronics
IC RF TXRX+MCU BLUETOOTH



BLUENRG-132
STMicroelectronics
IC RF TXRX+MCU BLUETOOTH

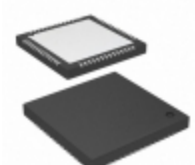
32VFQFN

40VFQFN

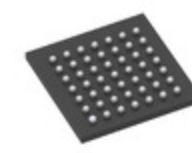
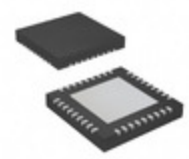
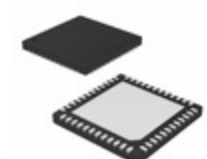
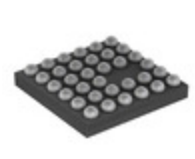
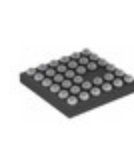
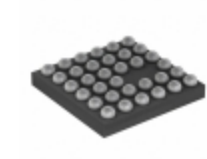
34XFBGA

32VFQFN

32VFQFN

**BLUENRG-232**STMicroelectronics
IC RF TXRX+MCU BLUETOOTH
32VFQFN**BLUENRG-355AC**STMicroelectronics
PROGRAMMABLE BLUETOOTH LOW
ENERG**CYW20733A3KML1GT**Infineon Technologies
IC RF TXRX+MCU BLUETOOTH
56VFQFN**BLU30/12**

LUMILEDS

**BLUENRG-345VC**STMicroelectronics
PROGRAMMABLE BLUETOOTH LE 5.2
WI**BLUENRG-345AC**STMicroelectronics
PROGRAMMABLE BLUETOOTH LE 5.2
WI**CC1180RSP**Texas Instruments
IC RF TXRX+MCU 802.15.4 36-
VFQFN**BLUENRG-248**STMicroelectronics
IC RF TXRX+MCU BLUETOOTH
48VFQFN**BLUENRG-MSCSP**STMicroelectronics
IC RF TXRX+MCU BLUETOOTH
34XFBGA**BLUENRG-234N**STMicroelectronics
BLUETOOTH? LOW ENERGY
WIRELESS N**BLUENRG-134**STMicroelectronics
IC RF TXRX+MCU BLUETOOTH
34XFBGA**BLUENRG-234**STMicroelectronics
IC RF TXRX+MCU BLUETOOTH
34XFBGA

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 -



Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



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