



#### SI1020-B-GM3R Information



For Reference Only

Part Number SI1020-B-GM3R

Manufacturer Silicon Labs

Category RF/IF and RFID
RF Transceiver ICs

**Description** IC RF TXRX+MCU ISM<1GHZ 85-VFLGA

Package 85-VFLGA Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# **Certified Quality**

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## SI1020-B-GM3R Specifications

Manufacturer Part Number         \$\$11020-B-GM3R           Manufacturer         \$\$10icon Labs           Category         RF/IF and RFID           RF Transceiver ICs           Package         \$\$5-VFLGA Exposed Pad           Series         -           Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz           Protocol         EZRadioPro           Modulation         FSK, GFSK, OOK           Frequency         240MHz ~ 960MHz           Data Rate (Max)         256kbps           Power - Output         20dBm (Max)           Sensitivity         -121dBm           Memory Size         128kB Flash, 8.5kB RAM           Serial Interfaces         12C, SPI, UART           GPIO         53           Voltage - Supply         1.8 V ~ 3.8 V           Current - Receiving         18.5mA           Current - Transmitting         85mA           Operating Temperature         -40°C ~ 85°C           Package / Case         85-VFLGA Exposed Pad		
Category         RF/IF and RFID           Package         85-VFLGA Exposed Pad           Series         -           Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz           Protocol         EZRadioPro           Modulation         FSK, GFSK, OOK           Frequency         240MHz ~ 960MHz           Data Rate (Max)         256kbps           Power - Output         20dBm (Max)           Sensitivity         -121dBm           Memory Size         128kB Flash, 8.5kB RAM           Serial Interfaces         12C, SPI, UART           GPIO         53           Voltage - Supply         1.8 V ~ 3.8 V           Current - Receiving         18.5mA           Current - Transmitting         85mA           Operating Temperature         -40°C ~ 85°C           Package / Case         85-VFLGA Exposed Pad	Manufacturer Part Number	SI1020-B-GM3R
Package         85-VFLGA Exposed Pad           Series         -           Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz	Manufacturer	Silicon Labs
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Series         -           Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz		RF Transceiver ICs
Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz	Package	85-VFLGA Exposed Pad
RF Family/Standard       General ISM < 1GHz         Protocol       EZRadioPro         Modulation       FSK, GFSK, OOK         Frequency       240MHz ~ 960MHz         Data Rate (Max)       256kbps         Power - Output       20dBm (Max)         Sensitivity       -121dBm         Memory Size       128kB Flash, 8.5kB RAM         Serial Interfaces       12C, SPI, UART         GPIO       53         Voltage - Supply       1.8 V ~ 3.8 V         Current - Receiving       18.5mA         Current - Transmitting       85mA         Operating Temperature       -40°C ~ 85°C         Package / Case       85-VFLGA Exposed Pad	Series	-
ProtocolEZRadioProModulationFSK, GFSK, OOKFrequency240MHz ~ 960MHzData Rate (Max)256kbpsPower - Output20dBm (Max)Sensitivity-121dBmMemory Size128kB Flash, 8.5kB RAMSerial InterfacesI2C, SPI, UARTGPIO53Voltage - Supply1.8 V ~ 3.8 VCurrent - Receiving18.5mACurrent - Transmitting85mAOperating Temperature-40°C ~ 85°CPackage / Case85-VFLGA Exposed Pad	Туре	TxRx + MCU
ModulationFSK, GFSK, OOKFrequency240MHz ~ 960MHzData Rate (Max)256kbpsPower - Output20dBm (Max)Sensitivity-121dBmMemory Size128kB Flash, 8.5kB RAMSerial InterfacesI2C, SPI, UARTGPIO53Voltage - Supply1.8 V ~ 3.8 VCurrent - Receiving18.5mACurrent - Transmitting85mAOperating Temperature-40°C ~ 85°CPackage / Case85-VFLGA Exposed Pad	RF Family/Standard	General ISM < 1GHz
Frequency Data Rate (Max) 256kbps  Power - Output 20dBm (Max) Sensitivity -121dBm  Memory Size 128kB Flash, 8.5kB RAM Serial Interfaces 12C, SPI, UART GPIO 53  Voltage - Supply 1.8 V ~ 3.8 V  Current - Receiving 18.5mA  Current - Transmitting 85mA  Operating Temperature Package / Case 85-VFLGA Exposed Pad	Protocol	EZRadioPro
Data Rate (Max)  Power - Output  20dBm (Max)  Sensitivity  -121dBm  Memory Size  128kB Flash, 8.5kB RAM  Serial Interfaces  I2C, SPI, UART  GPIO  53  Voltage - Supply  1.8 V ~ 3.8 V  Current - Receiving  Current - Transmitting  85mA  Operating Temperature  -40°C ~ 85°C  Package / Case  85-VFLGA Exposed Pad	Modulation	FSK, GFSK, OOK
Power - Output  20dBm (Max)  -121dBm  Memory Size  128kB Flash, 8.5kB RAM  Serial Interfaces  I2C, SPI, UART  GPIO  53  Voltage - Supply  1.8 V ~ 3.8 V  Current - Receiving  18.5mA  Current - Transmitting  85mA  Operating Temperature  -40°C ~ 85°C  Package / Case  85-VFLGA Exposed Pad	Frequency	240MHz ~ 960MHz
Sensitivity -121dBm  Memory Size 128kB Flash, 8.5kB RAM  Serial Interfaces 12C, SPI, UART  GPIO 53  Voltage - Supply 1.8 V ~ 3.8 V  Current - Receiving 18.5mA  Current - Transmitting 85mA  Operating Temperature -40°C ~ 85°C  Package / Case 85-VFLGA Exposed Pad	Data Rate (Max)	256kbps
Memory Size  128kB Flash, 8.5kB RAM  Serial Interfaces  12C, SPI, UART  GPIO  53  Voltage - Supply  1.8 V ~ 3.8 V  Current - Receiving  18.5mA  Current - Transmitting  85mA  Operating Temperature  -40°C ~ 85°C  Package / Case  85-VFLGA Exposed Pad	Power - Output	20dBm (Max)
Serial InterfacesI2C, SPI, UARTGPIO $53$ Voltage - Supply $1.8 \text{ V} \sim 3.8 \text{ V}$ Current - Receiving $18.5 \text{mA}$ Current - Transmitting $85 \text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $85-\text{VFLGA Exposed Pad}$	Sensitivity	-121dBm
GPIO 53  Voltage - Supply 1.8 V $\sim$ 3.8 V  Current - Receiving 18.5mA  Current - Transmitting 85mA  Operating Temperature -40°C $\sim$ 85°C  Package / Case 85-VFLGA Exposed Pad	Memory Size	128kB Flash, 8.5kB RAM
Voltage - Supply $1.8 \ V \sim 3.8 \ V$ Current - Receiving $18.5 mA$ Current - Transmitting $85 mA$ Operating Temperature $-40 ^{\circ}C \sim 85 ^{\circ}C$ Package / Case $85 \text{-VFLGA Exposed Pad}$	Serial Interfaces	I2C, SPI, UART
Current - Receiving 18.5mA  Current - Transmitting 85mA  Operating Temperature -40°C ~ 85°C  Package / Case 85-VFLGA Exposed Pad	GPIO	53
Current - Transmitting 85mA  Operating Temperature -40°C ~ 85°C  Package / Case 85-VFLGA Exposed Pad	Voltage - Supply	1.8 V ~ 3.8 V
Operating Temperature -40°C ~ 85°C Package / Case 85-VFLGA Exposed Pad	Current - Receiving	18.5mA
Package / Case 85-VFLGA Exposed Pad	Current - Transmitting	85mA
·	Operating Temperature	-40°C ~ 85°C
Report errors?	Package / Case	85-VFLGA Exposed Pad
		Report errors?

#### SI1020-B-GM3R Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## SI1020-B-GM3R Payment Methods





















## SI1020-B-GM3R Shipping Methods













If you have any question about SI1020-B-GM3R, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com