



## SI4455-B1A-FM Information



For Reference Only

Part Number SI4455-B1A-FM
Manufacturer Silicon Labs
Category RF/IF and RFID
RF Transceiver ICs

**Description** IC RF TXRX+MCU ISM<1GHZ 20-VFQFN

Package 20-VFQFN 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**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## SI4455-B1A-FM Specifications

Manufacturer Part Number         \$I4455-B1A-FM           Manufacturer         \$Silicon Labs           Category         RF/IF and RFID           RF Transceiver ICs         RF Transceiver ICs           Package         20-VFQFN Exposed Pad           Series         -           Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz           Protocol         -           Modulation         FSK, GFSK, OOK           Frequency         283MHz ~ 960MHz           Data Rate (Max)         500kbps           Power - Output         13dBm (Max)           Sensitivity         -116dBm           Memory Size         -           Serial Interfaces         SPI           GPIO         4           Voltage - Supply         1.8 V ~ 3.6 V           Current - Receiving         10mA           Current - Transmitting         18mA ~ 30mA           Operating Temperature         -40°C ~ 85°C           Package / Case         20-VFQFN Exposed Pad		
Category         RF/IF and RFID           RF Transceiver ICs           Package         20-VFQFN Exposed Pad           Series         -           Type         TxRx + MCU           RF Family/Standard         General ISM < 1GHz           Protocol         -           Modulation         FSK, GFSK, OOK           Frequency         283MHz ~ 960MHz           Data Rate (Max)         500kbps           Power - Output         13dBm (Max)           Sensitivity         -116dBm           Memory Size         -           Serial Interfaces         SPI           GPIO         4           Voltage - Supply         1.8 V ~ 3.6 V           Current - Receiving         10mA           Current - Transmitting         18mA ~ 30mA           Operating Temperature         -40°C ~ 85°C           Package / Case         20-VFQFN Exposed Pad	Manufacturer Part Number	SI4455-B1A-FM
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Modulation         FSK, GFSK, OOK           Frequency         283MHz ~ 960MHz           Data Rate (Max)         500kbps           Power - Output         13dBm (Max)           Sensitivity         -116dBm           Memory Size         -           Serial Interfaces         SPI           GPIO         4           Voltage - Supply         1.8 V ~ 3.6 V           Current - Receiving         10mA           Current - Transmitting         18mA ~ 30mA           Operating Temperature         -40°C ~ 85°C           Package / Case         20-VFQFN Exposed Pad	RF Family/Standard	General ISM < 1GHz
Frequency Data Rate (Max) 500kbps  Power - Output 13dBm (Max) Sensitivity -116dBm  Memory Size - Serial Interfaces SPI  GPIO 4  Voltage - Supply 1.8 V ~ 3.6 V  Current - Receiving 10mA  Current - Transmitting 18mA ~ 30mA  Operating Temperature Package / Case 283MHz ~ 960MHz 500kbps 13dBm (Max) 13dBm (Max) -116dBm  -18 W -10 M -10 M -10 M -10 M -10 M -10 W -1	Protocol	-
Data Rate (Max)       500kbps         Power - Output       13dBm (Max)         Sensitivity       -116dBm         Memory Size       -         Serial Interfaces       SPI         GPIO       4         Voltage - Supply       1.8 V ~ 3.6 V         Current - Receiving       10mA         Current - Transmitting       18mA ~ 30mA         Operating Temperature       -40°C ~ 85°C         Package / Case       20-VFQFN Exposed Pad	Modulation	FSK, GFSK, OOK
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Sensitivity -116dBm  Memory Size - Serial Interfaces SPI  GPIO 4  Voltage - Supply 1.8 V ~ 3.6 V  Current - Receiving 10mA  Current - Transmitting 18mA ~ 30mA  Operating Temperature -40°C ~ 85°C  Package / Case 20-VFQFN Exposed Pad	Data Rate (Max)	500kbps
Memory Size - Serial Interfaces SPI GPIO 4 Voltage - Supply 1.8 V ~ 3.6 V Current - Receiving 10mA Current - Transmitting 18mA ~ 30mA Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad	Power - Output	13dBm (Max)
Serial InterfacesSPIGPIO4Voltage - Supply $1.8 \text{ V} \sim 3.6 \text{ V}$ Current - Receiving $10\text{mA}$ Current - Transmitting $18\text{mA} \sim 30\text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$	Sensitivity	-116dBm
GPIO 4 Voltage - Supply 1.8 V $\sim$ 3.6 V Current - Receiving 10mA Current - Transmitting 18mA $\sim$ 30mA Operating Temperature -40°C $\sim$ 85°C Package / Case 20-VFQFN Exposed Pad	Memory Size	-
Voltage - Supply $1.8\ V \sim 3.6\ V$ Current - Receiving $10\text{mA}$ Current - Transmitting $18\text{mA} \sim 30\text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$	Serial Interfaces	SPI
Current - Receiving $10 \text{mA}$ Current - Transmitting $18 \text{mA} \sim 30 \text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$	GPIO	4
Current - Transmitting $18\text{mA} \sim 30\text{mA}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $20\text{-VFQFN Exposed Pad}$	Voltage - Supply	1.8 V ~ 3.6 V
Operating Temperature -40°C ~ 85°C Package / Case 20-VFQFN Exposed Pad	Current - Receiving	10mA
Package / Case 20-VFQFN Exposed Pad	Current - Transmitting	18mA ~ 30mA
	Operating Temperature	-40°C ~ 85°C
Report errors?	Package / Case	20-VFQFN Exposed Pad
		Report errors?

#### SI4455-B1A-FM 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.

### SI4455-B1A-FM Payment Methods



















## SI4455-B1A-FM Shipping Methods













If you have any question about SI4455-B1A-FM, please do not hesitate to contact us!

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