

## CYBL10463-56LQXI

#### CYBL10463-56LQXI Information



# **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.



### CYBL10463-56LQXI Specifications

| Manufacturer Part Number       CYBL10463-56LQXI         Manufacturer       Cypress Semiconductor Corp         Category       RF/IF and RFID         Ref Transceiver ICs       Ref Transceiver ICs         Package       56-UFQFN Exposed Pad         Series       -         Type       TxR x + MCU         RF Family/Standard       Bluetooth         Potocol       Bluetooth v4.1         Modulation       GFSK         Power - Output       AdBm         Vergency       2.4GHz         Power - Output       JaBm         Sensitivity       -9IdBm         Sensitivity       2.9LgK Flash, 8kB ROM, 16kB SRAM         Sensitivity       2.6GPI         Voltage - Supply       1.8 V ~ 5.5 V         Current - Receiving       1.8 V ~ 5.5 V         Current - Transmitting       1.8 V ~ 5.5 V         Querent - Supply       1.8 V ~ 5.5 V         Current - Receiving       1.2 SmA ~ 20mA         Operating Temperature       4.0°C ~ 105°C         Package / Case       5.0 UFQFN Exposed Pad |                          |                                 |
|--|--------------------------|---------------------------------|
| CategoryRF/IF and RFIDRF Transceiver ICsPackage56-UFQFN Exposed PadSeries-TypeTxRx + MCURF Family/StandardBluetoothProtocolBluetooth v4.1ModulationGFSKFrequency2.4GHzData Rate (Max)HubpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial Interfaces2C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving1.25mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad   | Manufacturer Part Number | CYBL10463-56LQXI                |
| Indext and the seriesInstance of the seriesPackage56-UFQFN Exposed PadSeries-TypeTxRx + MCURF Family/StandardBluetoothProtocolBluetooth v4.1ModulationGFSKFrequency2.4GHzData Rate (Max)MbpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial Interfaces12C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving1.2 SmA ~ 20mAOperating Temperature40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  | Manufacturer             | Cypress Semiconductor Corp      |
| Package56-UFQFN Exposed PadSeries-TypeTxRx + MCUTypeBuetoothRF Family/StandardBuetooth v4.1ProtocolBuetooth v4.1ModulationGFSKFrequency2.4 GHzData Rate (Max)IMbpsPower - Output3dBmSensitivity-91 dBmSerial InterfacesI2x SPI JAGKAS MAMVoltage - Supply36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving1.64mA ~ 21.5mAOperating Temperature40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  | Category                 | RF/IF and RFID                  |
| Series.TypeTxRx + MCURF Family/StandardBluetoothProtocolBluetooth v4.1ModulationGFSKFrequency2.4GHzData Rate (Max)IMbpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial InterfacesI2C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving12.5mA ~ 20.5mAOperating Temperature40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  |                          | RF Transceiver ICs              |
| TypeTxR + MCURF Fanily/StandardBluetoothProtocolBluetooth v4.1ModulationGFSKFrequency2.4GHzData Rate (Max)MbpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial InterfacesIC, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving1.64mA ~ 21.5mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad   | Package                  | 56-UFQFN Exposed Pad            |
| Ar       Bluetooth         Protocol       Bluetooth v4.1         Modulation       GFSK         Frequency       2.4GHz         Data Rate (Max)       IMbps         Power - Output       3dBm         Sensitivity       -91dBm         Memory Size       128kB Flash, 8kB ROM, 16kB SRAM         Serial Interfaces       I2C, SPI, UART         GPIO       36         Voltage - Supply       1.8 V ~ 5.5 V         Current - Receiving       16.4mA ~ 21.5mA         Operating Temperature       -40°C ~ 105°C         Package / Case       56-UFQFN Exposed Pad   | Series                   | -                               |
| Protocol       Bluetooth v4.1         Modulation       GFSK         Frequency       2.4GHz         Data Rate (Max)       IMbps         Power - Output       3dBm         Sensitivity       -91dBm         Memory Size       128kB Flash, 8kB ROM, 16kB SRAM         Serial Interfaces       I2C, SPI, UART         GPIO       36         Voltage - Supply       1.8 V ~ 5.5 V         Current - Receiving       16.4mA ~ 21.5mA         Operating Temperature       40°C ~ 105°C         Package / Case       56-UFQFN Exposed Pad   | Туре                     | TxRx + MCU                      |
| ModulationGFSKFrequency2.4GHzData Rate (Max)MbpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial Interfaces12C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving16.4mA ~ 21.5mAOperating Timeprature40°C ~ 105°CPackage / Case56-UFQFN Eage Pad  | RF Family/Standard       | Bluetooth                       |
| Frequency2.4GHzPoter Adde (Max)IMbpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial InterfacesI2C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving1.64mA ~ 21.5mACurrent - Transmitting12.5mA ~ 20mAOperating Temperature40°C ~ 105°CPackage / Case5-UFQFN Exposed Pad   | Protocol                 | Bluetooth v4.1                  |
| InterfaceData Rate (Max)1MbpsPower - Output3dBmSensitivity-91dBmMemory Size128kB Flash, 8kB ROM, 16kB SRAMSerial InterfacesI2C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving16.4mA ~ 21.5mACurrent - Transmitting12.5mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  | Modulation               | GFSK                            |
| Power - Output       3dBm         Sensitivity       -91dBm         Memory Size       128kB Flash, 8kB ROM, 16kB SRAM         Serial Interfaces       I2C, SPI, UART         GPIO       36         Voltage - Supply       1.8 V ~ 5.5 V         Current - Receiving       16.4mA ~ 21.5mA         Operating Temperature       -40°C ~ 105°C         Package / Case       56-UFQFN Exposed Pad   | Frequency                | 2.4GHz                          |
| Sensitivity       -91dBm         Memory Size       128kB Flash, 8kB ROM, 16kB SRAM         Serial Interfaces       I2C, SPI, UART         GPIO       36         Voltage - Supply       1.8 V ~ 5.5 V         Current - Receiving       16.4mA ~ 21.5mA         Operating Temperature       -40°C ~ 105°C         Package / Case       56-UFQFN Exposed Pad   | Data Rate (Max)          | 1Mbps                           |
| Memory Size128kB Flash, 8kB ROM, 16kB SRAMSerial InterfacesI2C, SPI, UARTGPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving16.4mA ~ 21.5mACurrent - Transmitting12.5mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  | Power - Output           | 3dBm                            |
| Serial Interfaces       I2C, SPI, UART         GPIO       36         Voltage - Supply       1.8 V ~ 5.5 V         Current - Receiving       16.4mA ~ 21.5mA         Current - Transmitting       12.5mA ~ 20mA         Operating Temperature       -40°C ~ 105°C         Package / Case       56-UFQFN Exposed Pad   | Sensitivity              | -91dBm                          |
| GPIO36Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving16.4mA ~ 21.5mACurrent - Transmitting12.5mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad   | Memory Size              | 128kB Flash, 8kB ROM, 16kB SRAM |
| Voltage - Supply1.8 V ~ 5.5 VCurrent - Receiving16.4mA ~ 21.5mACurrent - Transmitting12.5mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad   | Serial Interfaces        | I2C, SPI, UART                  |
| Current - Receiving16.4mA ~ 21.5mACurrent - Transmitting12.5mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  | GPIO                     | 36                              |
| Current - Transmitting12.5mA ~ 20mAOperating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad  | Voltage - Supply         | 1.8 V ~ 5.5 V                   |
| Operating Temperature-40°C ~ 105°CPackage / Case56-UFQFN Exposed Pad   | Current - Receiving      | 16.4mA ~ 21.5mA                 |
| Package / Case 56-UFQFN Exposed Pad  | Current - Transmitting   | 12.5mA ~ 20mA                   |
|  | Operating Temperature    | -40°C ~ 105°C                   |
| Report errors?   | Package / Case           | 56-UFQFN Exposed Pad            |
|  |                          | Report errors?                  |

#### CYBL10463-56LQXI 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.

#### CYBL10463-56LQXI Payment Methods



#### CYBL10463-56LQXI Shipping Methods



If you have any question about CYBL10463-56LQXI, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com