

About SILION TECH

SILION TECH is a professional RFID technology service provider in the field of the Internet of Things. The core team has over 20 years of industry experience in RFID and the Internet of Things. Since the establishment of the company team in 2005, SILION TECH has been providing global leading RFID products and comprehensive solutions to customers in various fields and directions such as logistics supply chain management, asset management, production and manufacturing management, anti-counterfeiting tracing management, personnel management, vehicle management, and embedded application products.

SILION TECH is also a global leader in RFID as a global gold partner of Impinj Inc., a leading RFID chip company headquartered in the United States. Over the years, SILION TECH has worked closely with Impinj Inc. to provide ultra-high frequency RFID products based on Impinj Inc.'s RF chips to customers around the world.



Why buy UHF/RAIN RFID modules from SILION TECH?

- Easy to pair with your devices. Our modules can be integrated with compatible fixed and mobile devices on your site. They operate in UHF ranges and can be set up for a range of antennas.
- Upgraded with the latest RFID chips. SILION TECH UHF RFID modules use Impinj chips for longer reading distances and RAIN connectivity. These make for the highest-performance RFID solutions across many industries.
- Incredibly versatile. Retail, logistics, manufacturing, and even healthcare organizations can benefit from bringing our modules into their day-to-day operations. They allow you to quickly locate assets, obtain real-time temperature readings of your machinery, track your inventory, and more.
- Affordable to implement. Setting low chip-based RFID module prices is how we encourage the wider adoption of RFID technology. A modest one-time investment makes your business closer to the efficiency of tracking, managing, and monitoring assets through RFID.





Fixed UHF/RAIN RFID Reader SIR7223

- Size: 183mm x 174mm x 25.5mm
- Based on the New Generation Impinj E710 reader chip.
- 4 TNC Antenna interfaces
- 5-33dBm RF power output, ± 1 dB adjustable (30 dBm for FCC)
- High performance of anti-collision recognition algorithm, $\geq 1,000$ tags/s
- Read Range ≥ 13 m with 8dBi antenna
- Real-time monitoring of onboard temperature.
- Metal housing helpful in heat dissipation.
- PoE power support 802.3af or 802.3at
- Host API support C, C#, .NET, Java



Desktop UHF/RAIN RFID Reader SLR5318

- Size: 110mm x 110mm x 16.5mm
- 0 dBi PCB antenna inside
- 5-30dBm RF power output, ± 1 dB adjustable
- Read Rate ≥ 50 tags/s
- Read Range ≥ 0.5 m
- ABS engineering plastics housing
- Power Supply USB Powered Input Voltage; 3.6~5.0 +/-5%
- Host API support C, C#, .NET, Java
- Communications USB Mode (USB2.0)
- Serial Port Baud Rate: 9600~ 115200bps Communication method is switched by the bottom switch
- GPIO, 2 in 2 out



Bluetooth RFID Reader SQR5105

- Size: 130mm x 65mm x 16mm
- Housing material ABS plastics
- Bluetooth communicates with mobile phones or tablets via Bluetooth mode (Android 4.3 or higher)
- 2dBi PCB antenna inside
- 5-30 dBm RF power output, ± 1 dB adjustable
- Read Rate ≥ 50 tags/s
- Read Range ≥ 4 m
- Work Mode: Active mode and Passive mode
- Bluetooth 4.3(BLE)
- DC Supply: Type-C charging Charging Time: About 5.5 hours Battery: 3.7V / 3000mAh rechargeable lithium polymer battery (non-replaceable)

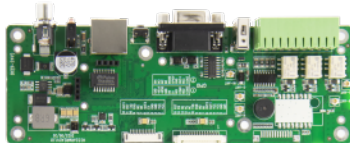


Wearable RFID Device Smart Glove SIR3522

- Based on the New Generation Impinj E310 reader chip.
- Low power consumption, built-in 1500mAh rechargeable battery, continuous working time of more than 8 hours, meeting the needs of a whole day of work.
- RF power setting adjustable, reading distance is 5-20cm, suitable for short range reading applications.
- When tag is in reading range, the UHF RFID glove will read it automatically, no need extra operation, help worker realize hands-free.
- Communicate through WIFI or Bluetooth two options.
- It is ergonomically designed, comfortable, good for work. Three sizes of S, M, and L options.

*Specifications are subject to change without notice.

Complete Open Source Development Board



SLD1090

Development Board is designed to facilitate RFID module testing and development. The board can be directly connected to all SILION TECH's RFID modules.
Size: 160mm x 64mm x 19.2mm
Communication: RJ45, RS232, USB, RS485, WG
Optional: PoE, BLE5.2, WIFI, 4G
Protocol: Modbus, HID, HTTP, HTTPS, MQTT, TCP
GPIO: 4 IN & 4 OUT
Power Supply: 9-24V or network port POE power supply



SLD6010

Size: 36.3mm x 22mm x 4.6mm
Communication: Type-C
Power Supply: Type-C
Connection port with module:
12 pin FPC interface
15 pin connector interface



SLD6020

Size: 37.7mm x 45mm x 11.6mm
Power supply: 9-24V standard adapter 12V/2A
Communication interface: RS232
GPIO: 1 input, 1 output
Connection port with module:
12 pin FPC interface
15 pin connector interface
Indicator light: Green power indicator light



SLD1010

Size: 70mm x 57mm x 12.3mm
Power supply: 9-24V
Communication: RJ45, RS232, Type-C
Optional: BLE5, WIFI
GPIO: 1 input, 1 output
Connection port with module:
12 pin FPC interface
15 pin connector interface
Indicator light: Green power indicator light



SLD1030

Size: 70mm x 55.9mm x 12.2mm
Power supply: 9-24V standard adapter 12V/2A
Communication: RJ45, RS232, USB, WG, RS485
GPIO: 4 input, 4 output
Connection port with module:
12 pin FPC interface
15 pin connector interface
Indicator light: Green power indicator light



SLD1040

Size: 52mm x 48.5mm x 7mm
Power supply: Type-C Power Supply, Connector 5V Power Supply
Communication: RS232, Type-C
GPIO: 1 input, 1 output
Connection port with module:
12 pin FPC interface
15 pin connector interface
Indicator light: Green power indicator light

SILION TECH will **provide a full set of technical documents** of the development board to customers **for FREE**, including schematics, circuit diagrams, PCB design drawings, software source code, etc., so that customers can quickly develop their own RFID equipment. If you are interested in this product, **please contact us now!**

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SILION TECH RAIN RFID Modules Powered by IMPINJ E710

						
		1-Port UHF RFID MODULE SIM7100	4-Port UHF RFID MODULE SIM7200	8-Port UHF RFID MODULE SIM7300	16-Port UHF RFID MODULE SIM7400	Coin Size UHF RFID MODULE SIM7500
Size (mm)		55.9 x 35.6 x 6	74.8 x 48.5 x 8	93.5 x 83.2 x 8	181.5 x 83.3 x 8	28 x 28 x 3.8
RF Chip		IMPINJ E710	IMPINJ E710	IMPINJ E710	IMPINJ E710	IMPINJ E710
Antenna Ports		1	4	8	16	1
RF Power		5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-30 dBm ±1 dB adjustable
Sensitivity		-87 dBm	-85 dBm	-86 dBm	-84 dBm	-87 dBm
Interface		12 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	20 pin Surface Mount Module (SMT compatible) Including: Power supply Communication GPIO
Read Rate		≥1000 tags/s	≥1000 tags/s	≥1000 tags/s	≥1000 tags/s	≥1000 tags/s
Read Range		≥5m with 2.5dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna	≥4m with 2.5dBi antenna



SILION TECH RAIN RFID Modules Powered by IMPINJ E510

						
		1-Port UHF RFID MODULE SIM5100	4-Port UHF RFID MODULE SIM5200	8-Port UHF RFID MODULE SIM5300	16-Port UHF RFID MODULE SIM5400	Coin Size UHF RFID MODULE SIM5500
Size (mm)		55.9 x 35.6 x 6	74.8 x 48.5 x 8	93.5 x 83.2 x 8	181.5 x 83.3 x 8	28 x 28 x 3.8
RF Chip		IMPINJ E510	IMPINJ E510	IMPINJ E510	IMPINJ E510	IMPINJ E510
Antenna Ports		1	4	8	16	1
RF Power		5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-30 dBm ±1 dB adjustable
Sensitivity		-80 dBm	-78 dBm	-79 dBm	-78 dBm	-80 dBm
Interface		12 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	20 pin surface mount module (SMT compatible) Including: Power supply Communication GPIO
Read Rate		≥600 tags/s	≥600 tags/s	≥600 tags/s	≥600 tags/s	≥600 tags/s
Read Range		≥5m with 2.5dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna	≥4m with 2.5dBi antenna





Supports Impinj **Gen2X**



SILION TECH UHF/RAIN RFID Modules Powered by IMPINJ E310

						
	1-Port UHF RFID MODULE SIM3100	2-Port UHF RFID MODULE SIM3110	4-Port UHF RFID MODULE SIM3200	8-Port UHF RFID MODULE SIM3300	8-Port UHF RFID MODULE SIM3300	16-Port UHF RFID MODULE SIM3400
Size (mm)	55.9 x 35.6 x 6	55.9 x 35.6 x 6.9	74.8 x 48.5 x 8	93.5 x 83.2 x 8	93.5 x 83.2 x 8	181.5 x 83.3 x 8
RF Chip	IMPINJ E310	IMPINJ E310	IMPINJ E310	IMPINJ E310	IMPINJ E310	IMPINJ E310
Antenna Ports	1	2	4	8	8	16
RF Power	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-26 dBm ±1 dB adjustable	5-33 dBm ±1 dB adjustable (30dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)	5-33 dBm ±1 dB adjustable (30 dBm for FCC)
Sensitivity	-73 dBm	-73 dBm	-72 dBm	-72 dBm	-72 dBm	-71 dBm
Interface	12 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO	15 pin connector UART Including: Power supply Communication GPIO
Read Rate	≥350 tags/s	≥300 tags/s	≥350 tags/s	≥350 tags/s	≥350 tags/s	≥350 tags/s
Read Range	≥5m with 2.5dBi antenna	≥3m with 2.5dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna	≥13m with 8dBi antenna

SILION TECH Coin size UHF/RAIN RFID Modules Powered by IMPINJ E310

			
Coin Size UHF RFID MODULE SIM3500	Coin Size UHF RFID MODULE SIM3600	Micro UHF RFID MODULE SIM3800	Micro UHF RFID MODULE SIM3900
<ul style="list-style-type: none"> • Size (mm): 28 x 28 x 3.5 • One Antenna port • 5-30 dBm RF power output • Sensitivity: -73 dBm • ≥350 tags/s • ≥4m with 2.5dBi antenna • Surface Mounted Device (SMD) form factor allows for rapid and seamless integration • Real-time monitoring of on-board temperature • Coin size and low power consumption 	<ul style="list-style-type: none"> • Size (mm): 21 x 21 x 3.7 • One Antenna port • 5-27 dBm RF power output • Sensitivity: -73 dBm • ≥300 tags/s • ≥3m with 2.5dBi antenna • Surface Mounted Device (SMD) form factor allows for rapid and seamless integration • Coin size and low power consumption 	<ul style="list-style-type: none"> • Size (mm): 16.3 x 16.3 x 2.6 • One Antenna port • 5-27 dBm RF power output • Sensitivity: -73 dBm • ≥300 tags/s • ≥3m with 2.5dBi antenna • Surface Mounted Device (SMD) form factor allows for rapid and seamless integration • Micro size and low power consumption 	<ul style="list-style-type: none"> • Size (mm): 21 x 10.5 x 2.4 • One Antenna port • 5-27 dBm RF power output • Sensitivity: -73 dBm • ≥300 tags/s • ≥3m with 2.5dBi antenna • Surface Mounted Device (SMD) form factor allows for rapid and seamless integration • Micro size and low power consumption

Supports Impinj Gen2X

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Please feel free to contact us at any time, scan the QR code below, you can find us at any time. Call **+86 -13724216730** or E-mail us at **sales@silion.com.cn**

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