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The background of the slide is a blurred industrial scene, likely a factory or laboratory, with various mechanical parts and equipment. A semi-transparent blue rectangular overlay covers the left side of the image, serving as a background for the text.

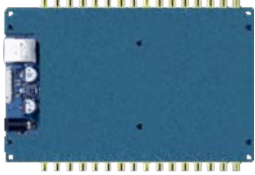
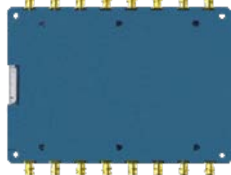
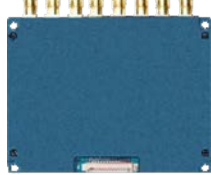
RFID HARDWARE 2025

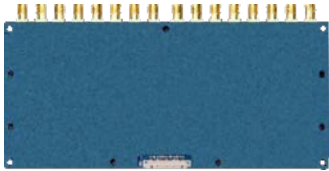
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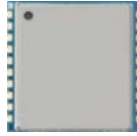
SANRAY UHF RFID

In the face of a variety of complex environmental requirements and different application scenarios, you can choose the appropriate product according to the actual cost control, the most convenient way to help complete your business project!



Chipset	Impinj E710 (Offer E910/E510/E310 for choice)			
Photo				
Model	RRU91932MHP RRU71932MHP RRU51932MHP RRU31932MHP	RRU9189MHP RRU5189MHP RRU7189MHP RRU3189MHP	RRU9199MHP RRU7199MHP RRU5199MHP RRU3199MHP	RRU9189M RRU7189M RRU5189M RRU3189M
Dimension	167.1x115.2x8.4/17.7 mm	140x114x8 mm	140x114x8 mm	91x 79x7.8 mm
New Weight	284.0g	196.0g	233.0g	119.0g
Output Power	5~35dBm(±1dB)adjustable	5~35dBm(±1dB)adjustable	5~35dBm(±1dB)adjustable	5~33dBm(±1dB)adjustable
Power Dissipation	(35dBm)approx. 17W(peak)	(35dBm)approx. 15W(peak)	(35dBm)approx. 15W(peak)	(33dBm)approx. 7.5W(peak)
Antenna Connector	MCX*32	SMA-F * 8	SMA-F * 16	SMA-F * 8
Frequency Band	865~868MHz /920~925MHz / 902~928MHz / Offer Customization	865~868MHz /920~928MHz / Offer Customization	865~868MHz /920~928MHz / Offer Customization	865~868MHz /920~925MHz /902~928MHz Offer Customization
Working Protocol	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)
Receive Sensitivity	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)
Peak Inventory Speed	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)
Buffering memory	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC
RSSI	√	√	√	√
Working Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode
GPIO	2 Input,2 Output(3.3V level)	2 Input,2 Output(3.3V level)	2 Input,2 Output(3.3V level)	2 Input,2 Output(3.3V level)
COMM Interface	RS232 (3.3V TTL Level) / LAN	RS232 (3.3V TTL Level)	RS232 (3.3V TTL Level)	RS232 (3.3V TTL Level)
Power Supply	4.5 ~ 5.5V / 9~24V	4.5 ~ 5.5V	4.5 ~ 5.5V	4.5 ~ 5.5V
Antenna Protecting	√	√	√	√
Self-Temp.Detection	√	√	√	√
Heat Dissipation	Heatsink for Air Cooling	Heatsink for Air Cooling	Heatsink for Air Cooling	Heatsink for Air Cooling
Operating Temp.	-20°C ~ +65°C	-20°C ~ +65°C	-20°C ~ +65°C	-25°C ~ +65°C
Storage Temp.	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Operating Humidity	< 95% (+25°C)	< 95% (+25°C)	< 95% (+25°C)	< 95% (+25°C)

Chipset	Impinj E710 (Offer E910/E510/E310 for choice)		
Photo			
Model	RRU9199M RRU7199M RRU5199M RRU3199M	RRU9182MG RRU7182MG RRU5182MG RRU3182MG	RRU9180MG RRU7180MG RRU5180MG RRU3180MG
Dimension	173x88.3x7.8 mm	77.2x51x7.8 mm	57.5x36.8x6.1 mm
New Weight	273.5g	55.0g	23.0g
Output Power	5~33dBm(±1dB)adjustable	5~35dBm(±1dB)adjustable	5~33dBm(±1dB)adjustable
Power Dissipation	(33dBm)approx. 10W(peak)	(35dBm)approx. 7.5W(peak)	(33dBm)approx. 6.75W(peak)
Antenna Connector	SMA-F * 16	SMA-F * 4	MMCX-F * 1
Frequency Band	865~868MHz /920~925MHz / 902~928MHz / Offer Customization	865~868MHz /920~925MHz /902~928MHz/ Offer Customization	865~868MHz /920~925MHz /902~928MHz Offer Customization
Working Protocol	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)
Receive Sensitivity	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)
Peak Inventory Speed	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)
Buffering memory	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC
RSSI	√	√	√
Working Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode
GPIO	2 Input,2 Output(3.3V level)	2 Input,2 Output(3.3V level)	2 Input,2 Output(3.3V level)
COMM Interface	Rs232 (3.3V TTL Level)	Rs232 (3.3V TTL Level)	Rs232 (3.3V TTL Level)
Power Supply	4.5 ~ 5.5V	4.5 ~ 5.5V	3.8 ~ 5.5V
Antenna Protecting	√	√	√
Self-Temp.Detection	√	√	√
Heat Dissipation	Heatsink for Air Cooling	Heatsink for Air Cooling	Heatsink for Air Cooling
Operating Temp.	-20℃ ~ +65℃	-20℃ ~ +65℃	-20℃ ~ +65℃
Storage Temp.	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃
Operating Humidity	< 95% (+25℃)	< 95% (+25℃)	< 95% (+25℃)

Chipset	Impinj E310 (Offer E710/E510 for choice)			
Photo				
Model	RRU31515M RRU51515M RRU71515M	RRU31717M RRU51717M RRU71717M	RRU31717M-TC RRU51717M-TC RRU71717M-TC	RRU32121M RRU52121M RRU72121M
Dimension	15x15x2.3 mm	17x17x2.5 mm	26x22x3.3 mm	21x 21x3.5 mm
New Weight	1.5g	1.7g	2.8g	3.2g
Output Power	5~27dBm(±1dB)adjustable	5~27dBm(±1dB)adjustable	5~27dBm(±1dB)adjustable	5~27dBm(±1dB)adjustable
Power Dissipation	(27dBm)approx. 3W(peak)	(27dBm)approx. 3W(peak)	(27dBm)approx. 3W(peak)	(27dBm)approx. 3W(peak)
Antenna Connector	Positioning holes used to facilitate connection to external antenna	Positioning holes used to facilitate connection to external antenna	Positioning holes used to facilitate connection to external antenna	Positioning holes used to facilitate connection to external antenna
Frequency Band	865~868MHz /902~928MHz / Offer Customization	865~868MHz /902~928MHz / Offer Customization	865~868MHz /902~928MHz / Offer Customization	865~868MHz /902~928MHz Offer Customization
Working Protocol	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)	EPC global UHF Class 1 Gen2 (ISO18000-6C)
Receive Sensitivity	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)
Peak Inventory Speed	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)
Buffering memory	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC	1000pcs @ 96bits EPC
RSSI	√	√	√	√
Working Mode	Answer / Active	Answer / Active(Triple)	Answer / Active(Triple)	Answer / Active(Triple)
GPIO	2 Output(3.3V level)	2 Input,2 Output(3.0V level)	2 Input,2 Output(3.0V level)	2 Input,2 Output(3.0V level)
COMM Interface	Rs232 (3.0V TTL Level)	Rs232 (3.0V TTL Level)	Rs232 (3.0V TTL Level)	Rs232 (3.0V TTL Level)
Power Supply	3.6 ~ 5.5V	3.6 ~ 5.5V	3.6 ~ 5.5V	3.6 ~ 5.5V
Antenna Protecting	√	√	√	√
Heat Dissipation	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Operating Temp.	-20°C ~ +65°C	-20°C ~ +65°C	-20°C ~ +65°C	-20°C ~ +65°C
Storage Temp.	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Operating Humidity	< 95% (+25°C)	< 95% (+25°C)	< 95% (+25°C)	< 95% (+25°C)

Chipset	Impinj E310 (Offer E710/E510 for choice)								
Photo									
Model	RRU32121MJ	RRU52121MJ	RRU72121MJ	RRU32828MG	RRU52828MG	RRU72828MG	RRU34030MP	RRU54030MP	RRU74030MP
Dimension	21x21x2.5 mm			28x28x3.5 mm			40x30x5.5 mm		
New Weight	3.0g			4.5g			10.0g		
Output Power	5~27dBm(±1dB)adjustable			5~30dBm(±1dB)adjustable			5~30dBm(±1dB)adjustable		
Power Dissipation	(27dBm)approx. 3W(peak)			(30dBm)approx. 5W(peak)			(30dBm)approx. 5W(peak)		
Antenna Connector	4th Generation IPEX*1			1th Generation IPEX*1			1th Generation IPEX*1		
Frequency Band	865~868MHz /902~928MHz / Offer Customization			865~868MHz /902~928MHz / Offer Customization			865~868MHz /902~928MHz / Offer Customization		
Working Protocol	EPC global UHF Class 1 Gen2 (ISO18000-6C)			EPC global UHF Class 1 Gen2 (ISO18000-6C)			EPC global UHF Class 1 Gen2 (ISO18000-6C)		
Receive Sensitivity	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)			-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)			-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)		
Peak Inventory Speed	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)			≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)			≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)		
Buffering memory	1000pcs @ 96bits EPC			1000pcs @ 96bits EPC			1000pcs @ 96bits EPC		
RSSI	√			√			√		
Working Mode	Answer / Active(Trigger)			Answer / Active(Trigger)			Answer / Active(Trigger)		
GPIO	1 Input,2 Output(3.0V level)			2 Input,2 Output(3.3V level)			2 Input,2 Output(3.3V level)		
COMM Interface	Rs232 (3.0V TTL Level)			Rs232 (3.3V TTL Level)			Rs232 (3.3V TTL Level)		
Power Supply	3.6 ~ 5.5V			3.6 ~ 5.5V			3.6 ~ 5.5V		
Antenna Protecting	√			√			√		
Heat Dissipation	Passive Cooling			Passive Cooling			Heatsink for Air Cooling		
Operating Temp.	-20°C ~ +65°C			-20°C ~ +65°C			-20°C ~ +65°C		
Storage Temp.	-40°C ~ +85°C			-40°C ~ +85°C			-40°C ~ +85°C		
Operating Humidity	< 95% (+25°C)			< 95% (+25°C)			< 95% (+25°C)		

Chipset	Impinj E310 (Offer E710/E510 for choice)				Impinj R2000	Impinj R2000	Impinj R2000
Photo							
Model	RRU353MA RRU553MA RRU753MA				M2208	M2216	M2240
Dimension	40x40x5.8 mm				165.4x79.6x6.5 mm	165.4x79.6x6.5 mm	76.5x40.5x7.8 mm
New Weight	26.0g				50.0g	70.0g	30.0g
Output Power	5~30dBm(±1dB)adjustable				5~30dBm(±1dB)adjustable	5~30dBm(±1dB)adjustable	5~30dBm(±1dB)adjustable
Power Dissipation	(30dBm)approx. 5W(peak)				30dBm	30dBm	30dBm
Antenna Connector	N/A				SMA-F * 8	SMA-F * 16	MMCX-F*4
Frequency Band	865~868MHz /902~928MHz / Offer Customization				840~960MHz (Default frequency band 920~925MHz)	840~960MHz (Default frequency band 920~925MHz)	840~960MHz (Default frequency band 920~925MHz)
Working Protocol	EPC global UHF Class 1 Gen 2 (ISO18000-6C)				EPC global UHF Class 1 Gen 2 (ISO18000-6C)	EPC global UHF Class 1 Gen 2 (ISO18000-6C)	EPC global UHF Class 1 Gen 2 (ISO18000-6C)
Receive Sensitivity	-87dBm(usingE710) -81dBm(usingE510) -74dBm(usingE310)				-82dBm	-82dBm	-82dBm
Peak Inventory Speed	≥1000pcs/s (usingE710) ≥600pcs/s (usingE510) ≥350pcs/s (usingE310)				800pcs/s	800pcs/s	800pcs/s
Buffering memory	1000pcs @ 96bits EPC				800pcs @ 96bits EPC	800pcs @ 96bits EPC	800pcs @ 96bits EPC
RSSI	√				√	√	√
Working Mode	Answer / Active(Trigger)				Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode
GPIO	1 Input,2 Output(3.3V level)				N/A	N/A	N/A
COMM Interface	Rs232 (3.3V TTL Level)				N/A	N/A	N/A
Power Supply	3.6 ~ 5.5V				DC 3.0 ~ 6.0V	DC 3.0 ~ 6.0V	DC 3.0 ~ 6.0V
Antenna Protecting	√				N/A	N/A	N/A
Self-Temp.Detection	N/A				N/A	N/A	N/A
Heat Dissipation	Passive Cooling				N/A	N/A	N/A
Operating Temp.	-20°C ~ +65°C				-25°C ~ + 65°C	-25°C ~ +65°C	-25°C ~ +65°C
Storage Temp.	-40°C ~ +85°C				-30°C ~ + 70°C	-30°C ~ +70°C	-30°C ~ +70°C
Operating Humidity	< 95% (+25°C)				≤95% (+25°C)	≤95% (+25°C)	≤95% (+25°C)

Chipset	PHYCHIPS PR2000			
	Impinj R2000	PHYCHIPS PR2000	PHYCHIPS PR2000	PHYCHIPS PR2000
Photo				
Model	M2210	M2130	M2100	F90A1-S
Dimension	56x36x7.8 mm	60x40x36 mm	60x40x36 mm	50x50x7 mm
New Weight	30.0g	30.0g	30.0g	30.0g
Output Power	5~30dBm(±1dB)adjustable	5~30dBm(±1dB)adjustable	5~25dBm(±1dB)adjustable	15~25dBm(±1dB)adjustable
Power Dissipation	30dBm	30dBm	30dBm	25dBm
Antenna Connector	MMCX-F*1	MMCX-F*1	MMCX-F*1	N/A
Frequency Band	840~960MHz (Default frequency band 902~928MHz)	840~960MHz (Default frequency band 920~925MHz)	840~960MHz (Default frequency band 920~925MHz)	840~960MHz (Default frequency band 920~925MHz)
Working Protocol	EPC global UHF Class 1 Gen 2 (ISO18000-6C)	EPC global UHF Class 1 Gen 2 (ISO18000-6C)	EPC global UHF Class 1 Gen 2 (ISO18000-6C)	EPC global UHF Class 1 Gen 2 (ISO18000-6C)
Receive Sensitivity	-82dBm	-62dBm	-62dBm	-62dBm
Peak Inventory Speed	800pcs/s	200pcs/s	200pcs/s	200pcs/s
Buffering memory	800pcs @ 96bits EPC	200pcs @ 96bits EPC	200pcs @ 96bits EPC	200pcs @ 96bits EPC
RSSI	√	√	√	√
Working Mode	Answer / Active(Trigger)	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode	Answer / Active(Trigger) Mode
GPIO	N/A	N/A	N/A	N/A
COMM Interface	N/A	N/A	N/A	N/A
Power Supply	DC 3.0 ~ 6.0V	DC 5.0V	DC 3.7 ~ 5.0V	DC 5.0V
Antenna Protecting	N/A	N/A	N/A	N/A
Self-Temp.Detection	N/A	N/A	N/A	N/A
Heat Dissipation	N/A	N/A	N/A	N/A
Operating Temp.	-25°C ~ + 65°C	-25°C ~ + 65°C	-25°C ~ +65°C	-25°C ~ +65°C
Storage Temp.	-30°C ~ + 70°C	-30°C ~ + 70°C	-30°C ~ +70°C	-30°C ~ +70°C
Operating Humidity	≤95% (+25°C)	≤95% (+25°C)	≤95% (+25°C)	≤95% (+25°C)

Chipset	Impinj R2000 (Offer E710 for choice)		
Photo			
Model	F5860-H	F5808	F5815
Dimension	268x191x43 mm	155x135x27 mm	165x135x27 mm
New Weight	1.93kg	1.63kg	1.74kg
Output Power	step interval 1.0dB , +5dBm~30dBm	step interval 1.0dB , +5dBm~30dBm	step interval 1.0dB , +5dBm~33dBm
Air Interface Protocol	EPC global UHF Class 1 Gen 2/ISO 18000-6C	EPC global UHF Class 1 Gen 2/ISO 18000-6C	EPC global UHF Class 1 Gen 2/ISO 18000-6C
antenna interface	4 pcs TNC	8 pcs SMA	16 PCS SMA
Working Frequency	840~960MHz (Default frequency band 902~925MHz)	840~960MHz (Default frequency band 920~925MHz)	840~960MHz (Default frequency band 920~925MHz)
working voltage	DC12V	DC12V	DC12V
Working current	<2.0A	<2.0A	<2.5A
Standby current	<50mA	<50mA	<50mA
Disconnect and reconnect from the internet	√	√	√
High temperature automatic protection	√	√	√
Network disconnection alarm	√	√	√
DRM mode	√	√	√
Access Door	√	√	√
RSSI	√	√	√
External watchdog	√	√	√
GPIO	Input 2 channels ; Output 4 channels	Input 2 channels ; Output 4 channels	Input 2 channels ; Output 4 channels
buzzer	√	√	√
Working Temp.	-25°C ~ + 65°C	-25°C ~ + 65°C	-25°C ~ +65°C
Working Temp.	-30°C ~ + 70°C	-30°C ~ + 70°C	-30°C ~ +70°C
Operating Humidity	≤95% (+25°C)	≤95% (+25°C)	≤95% (+25°C)

Chipset	Impinj R2000 (Offer E710 for choice)	
Photo		
Model	F5001	F5002-H
Dimension	130x82x11 mm	120x120x30 mm
New Weight	90.0g	50.0g
Output Power	step interval 1.0dB,+5dBm --+25dBm	step interval 1.0dB, maximum +30dBm
Air Interface Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
antenna interface	MINI USB	MINI USB
Working Frequency	840~960MHz	840~960MHz
Working voltage	Powered by USB 5V	DC +12V
Output power flatness	±0.2dBm	±0.2dBm
Receiver sensitivity	-62dBm	-82dBm
RF port standing wave	≤1.5	≤1.5
Read distance	0~0.8m	Maximum 0.5m
Write distance	0~0.2m	Maximum 0.5m
Interface communication speed	115200bps	115200bps
Working temperature detection	√	√
Antenna type	Near Field Antenna	-1dBi ceramic antenna
Appearance design	Plastic box shell design	N/A
Buzzer	√	√
Operation Temp.	-25°C ~ + 60°C	-25°C ~ + 65°C
Storage Temp.	-25~+ 65°C	-40°C ~ + 80°C
Operating Humidity	≤95% (+25°C)	≤95% (+25°C)

Chipset	Impinj E710	
Photo		
Model	P802S	P501-S
Dimension	211.5x136x16.3 mm	179x74.5x150 mm
New Weight	<700g	<750g
Display	8" IPS LTPS 1280 x 800/800/1920 x 1200 (option)	5.5 "color display with resolution 720x1440
Touch Panel	Support multi touch	Support multi touch
Audio	Speaker, microphone, earpiece	Speaker (mono), Microphone,Receiver
Keypad	1 power button, 1 side volume button, custom button x2	Power key, Volume +/- key, Handle scan key,Scan key ×2
CPU	Eight core 64 bit 2.0GHz high-performance processor	MT6762 Octa core 64 bit 2.0 GHz high performance processor
RAM+ROM	4GB+64GB 6GB+128GB (optional)	2GB+16GB / 4GB+64GB
Expansion	Micro SD (TF) Card expandable up to 256GB	Micro SD(TF) Supports up to 256GB
Operating System	Android 13.0	Android 10.0/ Android 13.0
SDK	Software Development Kit	Software Development Kit
Language	Java	Java
Drop Specification	Multiple 1.2 m	Multiple 1.2 m
sealing	IP66	IP65
Optional	UHF 、 NFC 、 ETC 、 Fingerprint 、 Infrared	UHF 、 Barcode Scanning 、
Front Camera	5-megapixel color camera	2 MP
Rear Camera	13 megapixel color camera (optional 20 megapixel),	13MP pixel HD camera
operation Temp.	-20°C- 55°C	-20°C- 55°C
storage Temp.	-40°C- 70°C	-40°C- 70°C
Humidity	5% RH -95% RH (no condensing)	5% RH -95% RH (no condensing)

SANRAY

SANRAY 2.4G Active device

**strong penetration distance and effective reading distance,
excellent anti-interference ability to water and metal.**



Chipset	2.4 GHz Active Series			
Photo				
Model	F2406	F2411	F2412	F2413
Dimension	228x228x68 mm	208x125x35 mm	208x125x35 mm	150x95.5x23.8 mm
New Weight	1.78kg	0.75kg	0.75kg	0.22kg
Power	DC 12V	DC12V	DC12V	N/A
Support tag working mode	Active tags	Active tags	Active tags	Active tags
Read distance	5~350m	80m	5~350m	5~300m
Recognition speed	500 tags/s	200 tags/s	500 tags/s	N/A
I/O interface	2-channel input interface, 4-channel output interface (optional)	2-channel input interface, 4-channel output interface (optional)	2-channel input interface, 4-channel output interface (optional)	2-channel input interface, 4-channel output interface (optional)
Operating Frequency	2.4~2.483G	2.4~2.483G	2.4~2.483G	2.4~2.483G
Signal attenuation	0-63dbm	N/A	N/A	N/A
Receiver sensitivity	-95dBm	-95dBm	-95dBm	-95dBm
Communication speed	1Mbit/s	1Mbit/s	1Mbit/s	1Mbit/s
Antenna gain	12dBi	N/A	12dBi	N/A
Operating Temp.	-25°C ~ + 65°C	-40°C ~ + 70°C	-40°C ~ + 70°C	-20°C ~ + 65°C
Storage Temp.	-30°C ~ + 70°C	-50°C ~ + 80°C	-50°C ~ + 80°C	-20°C ~ + 85°C
working Humidity	5%~95%	5%~95%	5%~95%	5%~95%

Chipset	2.4 GHz Active Series				
Photo		Photo		Photo	
Model	F2420	product	T2410	product	M2410-Model
Dimension	228x228x68 mm	Dimension	86x55x4 mm	Dimension	63x36x4mm
New Weight	1.78kg	New Weight	15g	New Weight	30g
Power	DC 12V	Material	ABS,White	Output Power	-20-40dBm adjustable
Support tag working mode	Active tags	Signal modulation	GFSK	Receiver sensitivity	Better than -95 dbm
Read distance	5~350m	Communication rate	1Mbit/s	Communication rate	1Mbit/s
Recognition speed	500 tags/s	Output Power	7dbm	Frequency	≤20ppm
I/O interface	2-channel input interface, 4-channel output interface (optional)	Quiescent Current	3uA	Modulation	GFSK
Operating Frequency	2.4~2.483G	Battery model	CR3032	Read distance	80m
Signal attenuation	0-63dbm	Battery capacity	0-63dbm	Read rate	200 pcs /s
Receiver sensitivity	-95dBm	Service life	-95dBm	Power	DC5V
Communication speed	1Mbit/s	Quiescent Current	1Mbit/s	Shutdown current	1uA
Antenna gain	12dBi	Battery model	12dBi	Receive current	30mA
Operating Temp.	-25°C ~ + 65°C	Battery capacity	500mA	Emission current	100mA
Storage Temp.	-30°C ~ + 70°C	Peak current	<25mA	Operating temperature	-20°C-60°C
working Humidity	5%~95%	Average current	<20uA	Storage temperature	-50°C-80°C
		Operating temperature	-20°C~+45°C	Heat Dissipation	5%-95%
		Storage temperature	-30°C~+65°C		

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SANRAY UWB Security Expert

strong penetration distance and effective reading distance,
excellent anti-interference ability to water and metal.



Chipset	UWB				
Photo		Photo			
Model	SN2000	Model	Tb1000-h	SN1000-gy	Tb1000-g
Dimension	120mmx120mmx61mm	Dimension	55*45*15mm	55*45*15mm	86*54*6mm
New Weight	270g	New Weight	40g	40g	30g
RF RANGE	6.1GHz~6.8GHz	Type of Antenna	Built-in omnidirectional antenna	Built-in omnidirectional antenna	Built-in omnidirectional antenna
Transmission power density	-41.3dBm/Mhz	Ranging Accuracy	0.1m	0.1m	0.1m
Receiving sensitivity	≤-90dBm	Refresh Rate	0.1Hz-30Hz , adjustable	0.1Hz-30Hz , adjustable	0.1Hz-30Hz , adjustable
Antenna type	Built in omnidirectional antenna	Status Indicator	LED flashing/Vibrator/Buzzer	LED flashing/Vibrator/Buzzer	LED flashing/Vibrator/Buzzer
Antenna gain	2dBi	Status Monitor	Battery level detection	Battery level detection	SOS key detection/Battery level detection
Alarm range	0.5~32m	Status Alarm	Battery level alarm	Battery level alarm	SOS /Battery level alarm
Distance measurement accuracy	Up to 10cm level	Power saving mode	Support	Support	Support
Product number	Global unique fixed ID, cannot be changed	Ingress Protection	IP67	IP67	IP65
Host power cord	3m	Wearing Method	By helmet holder	By helmet holder	Lanyard
IP LEVER	IP65	Charging Interface	Magnetic	Magnetic	MicroUSB
Shell material	ABS, With metal base plate	RFID	Built-in RFID coil, in accordance with ISO14443A agreement	Built-in RFID coil, in accordance with ISO14443A agreement	Built-in RFID coil, in accordance with ISO14443A agreement
Installation method	Bottom plate installation				
Alarm mode	Continuous alarm	Certification	CE/Rohs	CE/Rohs	FCC/CE/RoHS
Alarm output	Sound and light alarm	Charging Time	4-6 hours	4-6 hours	4-6 hours
base station	DC 24V , 1A	Charging Cycles	300 times	300 times	N/A
working temperature	-20~60°C	working temperature	-20-70°C	-20-70°C	-10-60°C
Storage temperature	-40~85°C	Storage temperature	-40-75°C	-40-75°C	-20-70°C
Working humidity	10%~90% without condensation	Working humidity	10% -90% non condensing	10% -90% non condensing	10% -90% non condensing
Storage humidity	5%~95%without condensation	Storage humidity	5% -95% without condensation	5% -95% without condensation	5% -95% non condensing

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SANRAY Specialty Tag

In the face of all kinds of complex environmental requirements and different application scenarios, there are adapted labels to choose from.



typology	Heat-Resistant UHF RFID TAG	UHF RFID WASH TAG	UHF RFID PSB TAG	UHF RFID LAUNDARY TAG	UHF RFID CARD TAG
Photo					
chips	Alien H9 or other chips can be customized	NXP U9	EXP U8 or other chips can be customized	EXP U9 or other chips can be customized	Impinj M730
application scenario	Suitable for indoor or outdoor scenes	medical washing	Suitable for metal surfaces	Industrial cleaning	Traffic, property, access
typology	UHF FLEXIBLE ON METAL TAG	UHF TAG FOR APPAREL	RFID TAG FOR ANIMAL	RFID NAIL TAG	RFID TIE TAG
Photo					
chips	Impinj M730	Impinj M730/M750	Impinj M730	EXP U9	NXP NTAG 213
application scenario	Asset management, equipment management	Clothing, textiles	Livestock industry	Plastic products tracking management Wood tracking	Asset management · Hospital equipment tracking Inventory management
typology	RFID CERAMIC TAG	RFID GAS CYLINDER TAG	UHF RFID TIRE IMPANT TAG		
Photo					
chips	Impinj M730	Impinj M781	NXP U9		
application scenario	Medical equipment management	Medical equipment management	Medical equipment management		

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Thanks for reading

www.sanrayrfid.com
info@sanrayrfid.com