

SAAT-F526B 2.45Ghz RFID Fixed Reader



Feature

- Support RS-232, Wiegand 26/34 & 10/100M Ethernet and customized interfaces
- Reading distance is adjustable by software
- Wireless module GPRS/GSM, WIFI optional
- Power supply configurable by requirement
- Multi-group I/O ports, to control the functional mode of the reader/writer
- Command-trigger, set time-trigger and out-trigger suitable for customer's applications
- Multi-reader operating under intensive environment
- Powerful API
- All the design, components model and production process meet relevant military standards, waterproofing IP67, harsh environment suitable

Parameter

RF Parameter	
Operating Frequency	2.400-2.48GHz
Operation Mode	FHSS or fixed frequency
Modulation	GFSK
Communication Rate	1Mbps
Receiving Sensitivity	-95dBm
Communication Interfaces	RS-232, 10/100M Ethernet, Wiegand 26/34
Expansion Interfaces	RS-485
Wireless Expansion Module	GPRS/GSM, Bluetooth, WIFI 802.11 module
I/O Port	2-channel relays output, 2-channel trigger input
Firmware Upgrade	Support serial port
Application Software Platform	Provide development kit of API(C++,C#)

Tag Operation	
Tag Protocol	Private Protocol
Reading Range	0-200m(depend on the tag power output)
Max Simultaneous Tag Detection	300
Identification Accuracy	>99.99%
Mechanical& Electrical performance	
Dimensions	Φ330mm×126mm (excluding bracket)
Weight	1.6kg
Power Supply	AC180V~240V input(optional external power adapter)
Power Consumption	300mW
Operating Temperature	-40°C~+60°C
Humidity	5%~95%(non-condensing)
Waterproof	IP67

Application

- School & cooperation personnel management and positioning
- Automatic vehicle identification
- Parking management, highway toll collection
- Warehousing and logistics

SAAT-F527 2.45Ghz Omni-directional Reader



Feature

- Support RS-232, 10M/100M Ethernet interface and customized interfaces
- Connect 2dBi omni-directional antenna outside
- Multi-group I/O ports, to control the functional mode of the reader/writer
- Command-trigger, set time-trigger and out-trigger suitable for customer's applications
- Powerful API
- Aluminum shell, high-tension, waterproofing IP55

Parameter

RF Parameter	
Operating Frequency	2.400-2.48GHz
Output Power	+15dBm (adjustable by software)
Receiving Sensitivity	-95dBm
Antenna type	Omni-directional
Polarization	Vertical
Communication Interfaces	RS-232, 10/100M Adaptive Ethernet interfaces
Expansion Interfaces	RS-485 interface, Wiegand 26/34 interfaces
I/O Port	2-channel relays output, 2-channel trigger input
Firmware Upgrade	Support serial port
Application Software Platform	Provide development kit of API(C++,C#)
Tag Operation	
Tag Protocol	Private Protocol
Tag Operating Mode	Compatible with active and passive operating mode tags
Reading Range	0-100m(depend on the tag power output)
Max Simultaneous Tag Detection	200pcs/s (tag ID)
Anti-confliction	Identifying 300pcs tag at the same time

Mechanical& Electrical performance	
Dimensions	190mm×120mm×40mm(excluding antenna)
Weight	0.6kg
Power Supply	DC 5V
Power Consumption	300mW
Operating Temperature	-40°C~+60°C
Storage Temperature	-40°C~+80°C
Humidity	5%~95%(non-condensing)
Waterproof	IP55

Application

- Personal position Management in Hospital & Nursing Home
- Prison management
- Mining tracking
- School & cooperation personnel management and positioning

SAAT-I528 2.45Ghz RFID Directional Reader



Feature

- Support RS-232, 10M/100M Ethernet interface and customized interfaces
- 15dBi build-in directional antenna
- Multi-group I/O ports, to control the functional mode of the reader/writer
- Command-trigger, set time-trigger and out-trigger suitable for customer's applications
- Multi-reader operating under intensive environment
- Powerful API
- All the design, components model and production process meet relevant military standards, waterproofing IP67C

Parameter

RF Parameter	
Operating Frequency	2.400-2.48GHz
Operation Mode	FHSS or fixed frequency
Modulation	GFSK
Communication Rate	1Mbps
Receiving Sensitivity	-95dBm
Communication Interfaces	RS-232, 10M/100M Ethernet
Expansion Interfaces	RS-485, Wiegand26/34
I/O Port	2-channel relays output,2-channel trigger input
Firmware Upgrade	Support serial port
Application Software Platform	Provide development kit of API(C++,C#)
Tag Operation	
Tag Protocol	Private Protocol
Reading Range	0-260m(depend on the tag power output)
Max Simultaneous Tag	300

Detection	
Identification Accuracy	>99.99%
Mechanical& Electrical performance	
Dimensions	315mm×200mm×110mm
Weight	1.6kg
Power Supply	AC180V~240V input (optional external power adapter)
Power Consumption	300mW
Operating Temperature	-40°C~+60°C
Humidity	5%~95%(non-condensing)
Waterproof	IP67

Application

- Automatic vehicle identification
- Parking management
- Highway toll collection
- School & cooperation personnel management and positioning

SAAT-F525 Mini Omni-directional Active Reader



Features

- Support RS-232, 10/100M Adaptive Ethernet; customized RS-485.
- External interface and power supply configurable for users' need, enhancing flexibility of systematic integration
- Support active reading, passive identifying, command trigger, timing trigger, external trigger and other modes, to meet users' various integration needs
- Support multi-reading, Multi-reader operating under intensive environment
- Reading distance is auto-regulation or adjustable
- Strong API port
- Aluminum shell, high-tension, IP Rating IP55
- All external interface are used the lighting and circuit protection, in accordance with IEC6100-4-5 and ITUK.21 specification.

Parameter

RF Parameter	
Operating Frequency	2.400-2.48GHz
Output Power	+15dBm (adjustable by software)
Receiving Sensitivity	-95dBm
Antenna type	Omni-directional
Communication Interface	
Communication Interfaces	RS-232, 10/100M Adaptive Ethernet interfaces
Expansion Interfaces	RS-485
Firmware Upgrade	Support serial port
Application Software Platform	Provide development kit of API(C++,C#)
Tag Operation	
Tag Protocol	Private Protocol
Tag Operating Mode	Compatible with active and passive operating mode tags
Reading Range	0-80m(depend on the tag power output)
Max Simultaneous Tag Detection	200pcs/s (tag ID)
Anti-confliction	Identifying 300pcs tag at the same time

Mechanical& Electrical performance	
Dimensions	16mm×105mm×29mm(excluding antenna)
Weight	0.4kg
Power Supply	DC 5V
Power Consumption	300mW
Operating Temperature	-40°C~+60°C
Storage Temperature	-40°C~+80°C
Humidity	5%~95%(non-condensing)
Waterproof	IP55

Applications

- Personal position Management in Hospital & Nursing Home, industrial mining and prison sector
- Warehouse, inventory , asset, logistics management etc

SAAT-E221B 125Khz Activator



SAAT- E221B low frequency activator is an important component in active RFID system. SAAT-E221B sends LF signal to the standby status wake-up RFID tag and activates it. SAAT-E221B can activate the tags around it like a round area. With the help of Active RFID reader, LF Activator and LF& Active Wake-up RFID tag, this combination can realize the regional location and detect direction of movement. At the same time, the wake-up tag has longer battery life.

Feature

- Working on 125KHz±1KHz
- Built-in antenna
- Exciting tag range: < 6(semi-diameter)
- RS485 Port

RF Parameter	
Operating Frequency	125KHz±1KHz
Tag Activating Area	0-7m (Activating radius adjustable)
Modulation Type	Adjustable by software (RS485) or set by hand
Antenna Output Power	<5W
Activator ID	8 bit
Working Indicator	LED, Buzzer
Mechanical& Electrical performance	
Dimensions	188mm×88mm×40mm (L×W×H)
Weight	225g
Working Voltage	DC 24V (compatible with DC16-28V)
Power Consumption	7W
Operating Temperature	-40°C~+60°C
Storage Temperature	-40°C~+80°C
Humidity	5%~95%(non-condensing)
Waterproof	IP68

Application

- Personnel Locating
- Vehicle management
- Asset management
- School & Family communication system

SAAT-H522 2.45Ghz Handheld RFID Reader



Feature

- Support RS-232 and USB interfaces
- Reading range is auto-adjustable or by software
- Selectable built-in wireless device such as GPRS,GPS, WIFI, Bluetooth
- Windows CE 5.0 operation system, based on industrial standard
- Built-in Marvell Xscale PXA 270 624MHz CPU
- Provides SDK for customers' second development
- IP rating of SAAT-H522 is IP65, which allows to working in various harsh environment and dropping it on the concrete floor at 1.5m without damage.

Parameter

RF Parameter	
Operating Frequency	2.400-2.48GHz
Receiving Sensitivity	-80dBm
Antenna gain	2dBi
Communication Interfaces	1 x RS232 DB9; 1 x USB Host port; 1 x USB Sub port
Processor	arvell Xscale PXA 270 624MHz CPU
Operation System	Win CE 5.0
Scanner	1D/2D Barcode Scanning Engine (Optional)
Wireless Communication	Bluetooth v2.0 + EDR; IrDA; EDGE/GPRS Module (Optional); WIFI Module (Optional); GPS Module(Optional)
Display	3.5QVGA (backlight), TFT-LCD 256K, four-wire resistance touch screen
Memory	System Storage 128MB SDRAM, system flash memory 1GB NAND FLASH
Tag Operation	
Tag Protocol	Private Protocol

Tag Operating Mode	Compatible with active and passive operating mode tags
Reading Range	0~80m (depends on tag power output)
Identification Speed	100pcs/s (tag ID)
Anti-confliction	Identifying 300pcs tag at the same time
Mechanical& Electrical performance	
Dimensions	223mm×75/100mm×31/42mm;200mm×75/100mm×31/42 mm
Weight	400g (including standard battery)
Power Supply	3.7V lithium battery, 4400mAh
Durability	Drop test from 1.5 m height to cement floor. It can resist three times of collision from three directions on six surfaces.
Voice Frequency	Built-in speaker, microphone and earphone connector
International Protection	IP65, (IEC60529 standard)
Continuous Working Period	8 hours
Working Temperature	-20℃~+50℃
Storage Temperature	-30℃~+60℃