

RFID UHF Total Solution & License Plate Recognition

UHF Reader



UHF Module



RFID Seal





Company introduction

Asia Smart Tag Co., Ltd. was founded in 1986. Initially, the company focused on the research and development, as well as the manufacturing of RF remote control products, marketing both domestically and internationally. In 1997, the company established an RFID R&D department dedicated to the design and production of RFID-related products, including RFID tags, RFID labels, RFID antennas, and RFID Reader/Duplicator, among others. To this day, we continue to innovate and develop new products, aiming to provide our customers with even higher quality and satisfaction.

- 1986 - Asia Smart Tag Co., Ltd. was established.
- 1987 - Developed and produced automotive anti-theft systems, sold under ASTAG own brand in the market.
- 1991 - R&D, production, and sales of remote controls, electric roller shutter remote controls, and home security systems.
- 1992 - Developed a Duplicator Remote Controller.
- 1996 - Developed Hopping Code Remote Controller and a building parking management system.
- 1997 - Established RFID R&D department to produce RFID-related products.
- 1999 -1. Joined the Industrial Technology Research Institute's RFID industry alliance.
2. Became an OEM manufacturer for AWID's overseas RFID products.
- 2001 - Factory production base moved to Taichung Industrial Zone.
- 2002 - Purchased chip encapsulation machines and laminating machines from Germany for automatic production of RFID label.
- 2003 - Expanded factory with an automatic production line for RFID label antennas.
- 2004 - Achieved ISO 9001 certification.
- 2007 - Obtained RFID Seal patent. Developed active RFID tags.
- 2008 - Became a semi-active OEM manufacturer for Power ID.
- 2011 - RFID Reader EMC certification.
- 2013 - Collaborated with FELICITY SCIENTIFIC CO.,LTD to develop high-frequency label for product traceability and cloud data database.
- 2017 - Developed RFID HF and UHF miniature metal tags for metal object management.
- 2018 - Develop active RFID.
- 2019 - Obtained Tainan oyster farm positioning and tracking winning a bid. Obtained the 2019 Taoyuan MRT RFID Tag winning a bid.
- 2020 - Obtained patent for RFID metal tags. Developed smart gaming machines.
- 2021 - Developed RFID smart electronic seals.
- 2022 -1. Obtain the invention patent for RFID (Radio Frequency Identification) device.
2. Obtain the invention patent for embedding RFID tags in metal.
3. Improved reading distance and object positioning for active RFID.
4. Developed keyless products.
- 2023 -1. Obtain the invention patent for RFID identification device in the United States.
2. Obtained the RFID Smart Seal ISO-17712:2013(E) certification.
3. Design RFID Smart UHF Reader.
4. Design BMS(Battery Management System).
5. Design (Battery Pack).
- 2024 -1. Obtained invention RFID Smart Seal patent.
2. Obtained new type patent for automatic access control unlocking systems.
3. Obtained invention patent for individual encryption signature systems and methods.
4. Obtained the RFID Tag patrol box of Changhua Police office winning a bid.
5. Obtain a new patent for RFID UHF Reader.
6. RFID Tag~Label FCC~CE certification.
7. RFID Reader FCC~CE~NCC certification.
8. ISO9001:2015 add battery system certification (design, sales, production).

Outline



1. Professional RFID Label Solution Provider

Product Name	Page	Product Name	Page
● HF Label	P.1 ~ P.7	● UHF Label	P.12 ~ P.18
● Metal Label (HF)	P.7 ~ P.8	● Metal Label (UHF)	P.18 ~ P.19
● Laundry Tag (HF)	P.9	● Laundry Tag (UHF)	P.20
● Anti-Theft Label (HF)	P.10 ~ P.11	● LED Label (UHF)	P.20 ~ P.21
● Temperature Label (HF)	P.11	● Anti-Theft Label (UHF)	P.21
		● Temperature Label (UHF)	P.22
		● E-Tag (UHF)	P.23 ~ P.24

2. RFID LF / HF Total Solution

Product Name	Page	Product Name	Page
● Key Fob and Token	P.1 ~ P.4	● Antenna	P.11
● Mini Tag	P.5 ~ P.6	● PCB Tag	P.11
● Screw Tag	P.6	● Wristband	P.12
● Glass Tag	P.7	● Module	P.13 ~ P.21
● Proximity Card	P.8	● Reader	P.22 ~ P.28
● Epoxy Tag	P.9 ~ P.10	● Facial Recognition	P.29 ~ P.30
● NFC Battery-Free Cabinet Lock	P.10	● Handheld RFID Reader	P.31 ~ P.32

3. RFID UHF Total Solution & License Plate Recognition

Product Name	Page	Product Name	Page
● Key Fob	P.1	● RFID Seal	P.6 ~ P.8
● Metal Tag	P.2 ~ P.3	● Module	P.9
● Screw Tag	P.3	● Dual-Band Reader & UHF Reader	P.10 ~ P.17
● Metal LED Tag	P.4	● UHF Antenna	P.18 ~ P.20
● Temperature Tag	P.4	● Handheld RFID Reader	P.21 ~ P.22
● Proximity Card	P.5 ~ P.6	● License Plate Recognition	P.23 ~ P.24

4. Hopping Code Roller Shutter Remote Controller

Product Name	Page
● Lane Gate Control Receiver and Transmitter	P.2 ~ P.3
● Hopping Code Remote Controller (388 Series)	P.4 ~ P.5
● Roller Shutter Motor Receiver	P.6
● Hopping Code Remote Controller (268 Series)	P.6 ~ P.7
● WiFi Roller Shutter Controller	P.8 ~ P.9
● Transmitter and Remote Control Duplicator	P.10 ~ P.11
● RFID Duplicator	P.12

RFID Key Fob

UHF



Ultra High Frequency	
Model	PTU-07K
Frequency band	860~868 MHz ; 902~930 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	3 m
Test Reader	PRU-15
Size	28 x 44.6 x 6.24 mm(L x W x H)
Material	ABS 、 Keychain 、 Metal
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming
Certificate	FCC 、 CE
Country of origin	Made in Taiwan



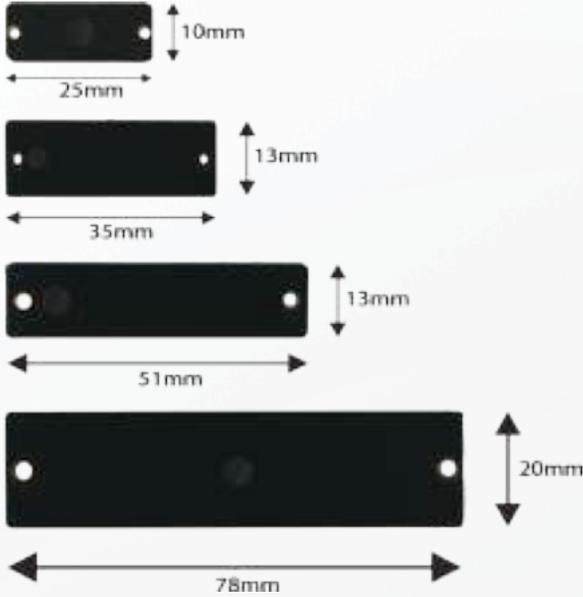
Ultra High Frequency	
Model	PTU-B7A
Frequency band	860~868 MHz ; 902~930 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	3 m
Test Reader	PRU-15
Size	56 x 26 x 4.7 mm(L x W x H)
Material	ABS 、 Keychain 、 Metal
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming
Certificate	FCC 、 CE
Country of origin	Made in Taiwan



Ultra High Frequency	
Model	PTU-B7B
Frequency band	860~868 MHz ; 902~930 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	3 m
Test Reader	PRU-15
Size	50.7 x 35.2 x 4.3 mm(L x W x H)
Material	ABS 、 Keychain 、 Metal
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming
Certificate	FCC 、 CE
Country of origin	Made in Taiwan

UHF

RFID Metal Tag



Ultra High Frequency				
Model	M7-025010	M7-035013	M7-051013	M7-078020
Size	25x10mm	35x13mm	51x13mm	78x20mm
Reading distance	3.5 m	5 m	6 m	11 m
Test Reader	PRU-29			
Frequency band	860~868 MHz ; 902~930 MHz			
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9			
ISO standard	EPC-C1G2 / ISO 18000-6C			
Material	FR4			
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming			
Certificate	FCC 、 CE			
Country of origin	Made in Taiwan			



Ultra High Frequency	
Model	1PTU-M707F-1I00L
Frequency band	860~868 MHz ; 902~930 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	8 m
Test Reader	PRU-15
Size	73 x 23 x 7.5 mm(L x W x H)
Material	ABS
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming
Certificate	FCC 、 CE
Country of origin	Made in Taiwan



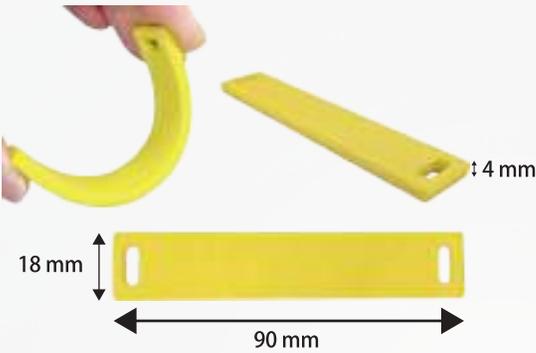
Ultra High Frequency	
Model	1PTU-M707F-1J00K
Frequency band	860~868 MHz ; 902~930 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	10 m
Test Reader	PRU-15
Size	110 x 29 x 8.4 mm(L x W x H)
Material	ABS
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming
Certificate	FCC 、 CE
Country of origin	Made in Taiwan

RFID Metal Tag

UHF



Ultra High Frequency				
Model	M77F1N			
Color	Gray	Red	Blue	Yellow
Material	ABS	PC	PBT+30%GF	PPS+40%GF
Heat-resistant	-30°C ~ 80°C	-40°C ~ 150°C	-40°C ~ 200°C	-40°C ~ 250°C
Frequency band	860~868 MHz ; 902~930 MHz			
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9			
ISO standard	EPC-C1G2 / ISO 18000-6C			
Reading distance	8 m			
Test Reader	PRU-15			
Size	73 x 29 x 12 mm(L x W x H)			
Customized	Laser carving · Inkjet printing · Color printing · Programming			
Certificate	FCC · CE			
Country of origin	Made in Taiwan			



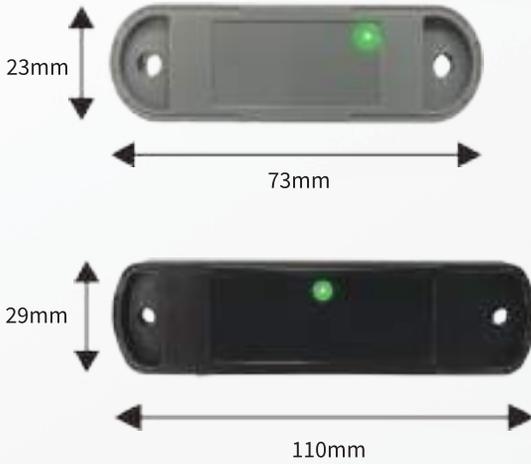
Ultra High Frequency	
Model	M7-090018
Frequency band	840~960 MHz
IC	Impinj Monza R6
ISO standard	EPC-C1G2 / ISO 18000 -6C
Reading distance	2.5 m
Test Reader	PRU-29
Memory	EPC 96 bits, TID 96 bits
Size	90 x 18 x 4 mm(L x W x H)
Material / Waterproof	TPU / IP68
Operating Temperature	-40°C ~ 100°C
Color	Blue / Red / Yellow / Green / Black / White
Customized	Laser carving · Inkjet printing · Color printing · Programming
Certificate	FCC · CE
Country of origin	Made in Taiwan

RFID Screw Tag

UHF



Ultra High Frequency	
Model	PTU-J70M
Frequency band	902~928 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	2 m
Test Reader	PRU-15
Size	31 x 15 mm
Material	PPS
Certificate	FCC · CE
Country of origin	Made in Taiwan

UHF**RFID Metal LED Tag**

Ultra High Frequency

	1PTU-R7-073023	1PTU-R7-110029
Model	1PTU-R7-073023	1PTU-R7-110029
Size	73 x 23 x 7.5 mm(L x W x H)	110 x 29 x 8.4 mm(L x W x H)
Reading distance	1.5 m	4 m
Test Reader	PRU-005	
Frequency band	902~928 MHz	
ISO standard	EPC-C1G2 / ISO 18000-6C	
Material	ABS	
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming	
Certificate	FCC 、 CE	
Country of origin	Made in Taiwan	

UHF**RFID Temperature Tag**

High Frequency

Ultra High Frequency

	High Frequency	Ultra High Frequency
Model	1PTH-S7-055025	1PTU-S7-052030
Size	55 x 25 x 32 mm(L x W x H)	52.8 x 30 x 32 mm(L x W x H)
Frequency band	13.56 MHz	900~928 MHz
ISO Standard	ISO 15693	ISO 18000-6C / EPC-C1G2
Reading distance	2 cm	1 m
Test Reader	PRH-578	PRU-15
Battery voltage	1.5 V	2.7 ~ 3.6 V
User Memory	8K bits	8K bits
Material	ABS+aluminum	ABS+aluminum
Operating Temperature	-40°C ~ 150°C	-40°C ~ 150°C
Temperature accuracy	±0.5°C	±1°C (-25°C ~ 125°C) ±2°C (other)
Certificate	FCC 、 CE	
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming	
Country of origin	Made in Taiwan	

RFID Proximity Card

UHF



Ultra High Frequency	
Model	PCU-06
Frequency band	840-960 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	5 ~ 10 m
Test Reader	PRU-368
Size	85.6 x 54 x 0.8 mm(L x W x H)
Material	PVC、PETG
Customized	Laser carving、Inkjet printing、Color printing、Programming
Certificate	FCC、CE
Country of origin	Made in Taiwan



Ultra High Frequency	
Model	PCU-05
Frequency band	840-960 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	5 ~ 10 m
Test Reader	PRU-368
Size	85.6 x 54 x 1.9 mm(L x W x H)
Material	PVC + ABS
Customized	Laser carving、Inkjet printing、Color printing、Programming
Certificate	FCC、CE
Country of origin	Made in Taiwan



Ultra High Frequency	
Model	PCU-06G
Frequency band	840-960 MHz
IC	ALIEN H3 / ALIEN H9 Impinj R6 / Impinj M830 NXP U Code 8 / NXP U Code 9
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	4 ~ 8 m
Test Reader	PRU-368
Size	50 x 30 x 0.88 mm(L x W x H)
Material	PVC / PVG
Customized	Laser carving、Inkjet printing、Color printing、Programming
Certificate	FCC、CE
Country of origin	Made in Taiwan

UHF

RFID Proximity Card



	LF+UHF	HF+UHF	UHF+UHF
Model	Dual Frequency Card		
Frequency band	125 KHz +	13.56 MHz +	860 ~ 960 MHz +
	860 ~ 960 MHz	860 ~ 960 MHz	860 ~ 960 MHz
IC	EM- series / Temic5577 / Silic5777 +	I-Code series +	ALIEN H3 +
	ALIEN H3	ALIEN H3	NXP U Code 8
Reading distance	3 m	3 m	3 m
Test Reader	PRU-368		
Size	85.6 x 54 x 0.8 mm(L x W x H)		
Material	PVC		
Customized	Laser carving 、 Inkjet printing 、 Color printing 、 Programming		
Certificate	FCC 、 CE		
Country of origin	Made in Taiwan		

UHF

RFID Seal

**RFID Seal**

	Ultra High Frequency
Model	PTU-I7
Frequency band	868 MHz ; 902~928 MHz
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	6 m
Test Reader	PRU-29
Size	171 x 21 x 21 mm(L x W x H)
Material	ABS 、 Stainless steel
Operating Temperature	-30°C ~ 80°C
Certificate	FCC 、 CE
Country of origin	Made in Taiwan

RFID Bolt Seal

UHF

Ultra High Frequency

Model	PTUP7-BOLT-1Y
Frequency band	860~868 MHz ; 902~930 MHz
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	8 m
Test Reader	PRU-29
Size	122 x 81 x 19 mm(L x W x H)
Material	ABS 、 Stainless steel
Operating Temperature	-30°C ~ 80°C
Support	1. Remote monitoring of container status. 2. Container transportation, can facilitate rapid customs clearance.
Seal status (single-use)	1. "00"-Opened Status-The steel bolt is not inserted. 2. "01"-Closed Status- The steel bolt is inserted. 3. "10"-Tampered Status-The steel bolt was damaged or compromised. 4. "11"-Abnormal Status- To cause damage without altering the appearance.
Tensile	It can withstand a tensile force of 1000 kg.
Applications	Port container management, container entry and exit management, fast customs clearance detection management.
Patent	I861473
Certificate	ISO 17712 ; 112TD0606-204-C01 、 FCC 、 CE
Country of origin	Made in Taiwan





	Ultra High Frequency
Model	PTUP7-CABLE-1Y-30
Frequency band	868 MHz ; 902~928 MHz
ISO standard	EPC-C1G2 / ISO 18000-6C
Reading distance	8 m
Test Reader	PRU-29
Size	190 x 81 x 21 mm(L x W x H)
Material	ABS 、 Stainless steel cable
Operating Temperature	-30°C ~ 80°C
Support	1. Remote monitoring of container status. 2. Container transportation, can facilitate rapid customs clearance.
Seal status (single-use)	1. "00"-Opened Status-The steel cable is not inserted. 2. "01"-Closed Status- The steel cable is inserted. 3. "10"-Tampered Status-The steel cable was damaged or compromised. 4. "11"-Abnormal Status- To cause damage without altering the appearance.
Applications	Port container management, container entry and exit management, fast customs clearance detection management.
Patent	I861474
Certificate	ISO 17712 ; 113TD0206-172-C01 、 FCC 、 CE
Country of origin	Made in Taiwan

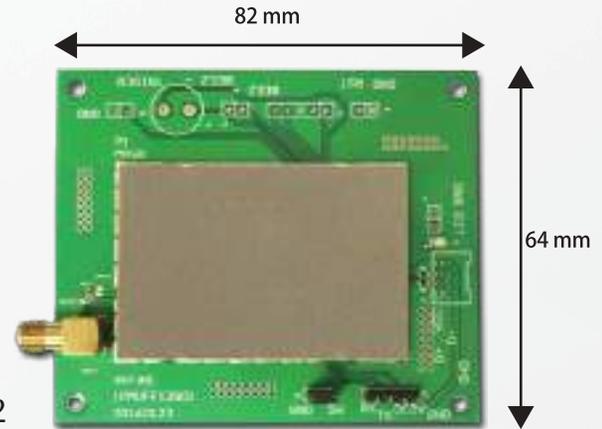


RFID UHF Module

UHF

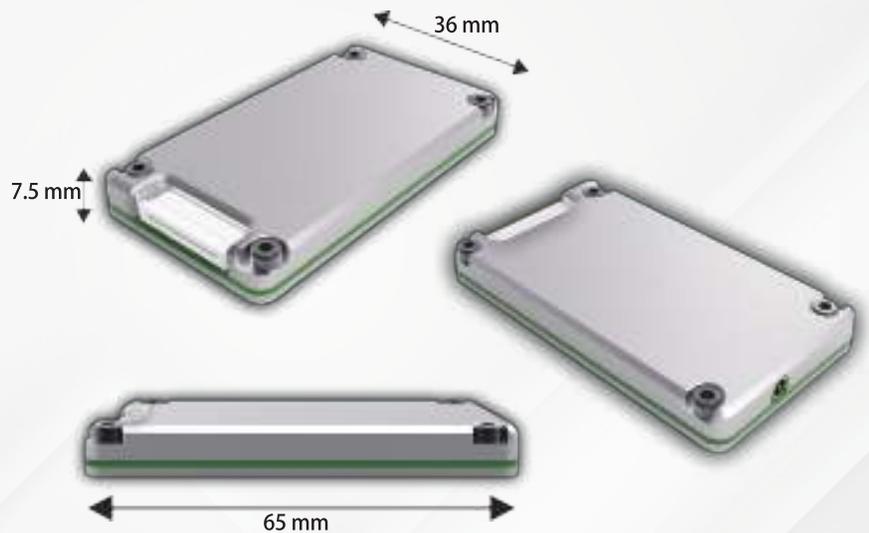
Features:

- Model: PRUA0CFK01
- Frequency Band: NA: 902~928 MHz
EU: 865~868 MHz
TW: 922~928 MHz
- Protocol: ISO 18000-6C, EPC C1G2
- Interface: UART, USB-HID, USB Keyboard wedge, RS-232
- Power Supply: DC 5V
- Output Power: 25dbm
- Reading Distance: 4 m
- Size: 82 x 64 x 15 mm (L x W x H)
- Supports: These interfaces allow the module to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Other Supports: Can External Antenna, Buzzer, Control Switch connection.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read tags.
- Applications: Supply chain management, storage management, library management.
- Customizable.
- Country of origin: Made in Taiwan



Features:

- Model: PMU3993
- Frequency Band: 840 ~ 960MHz
- Output Power: 30dBm (Max.)
- Protocol: ISO18000-6C, EPC C1G2
- Interface: UART
- Power Supply: DC5V
- Reading Distance: Around 9 m, dependent on ANT type.
- Size: 65 x 36 x 7.5mm(LxWxH)
- External Control: 2 inputs and 2 outputs of GPIO.
- Supports: These interfaces allow the module to communicate with external devices such as computers, microcontrollers, or network servers.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read tags.
- Applications: Supply chain management, storage management, library management.
- Customizable.
- Country of origin: Made in Taiwan



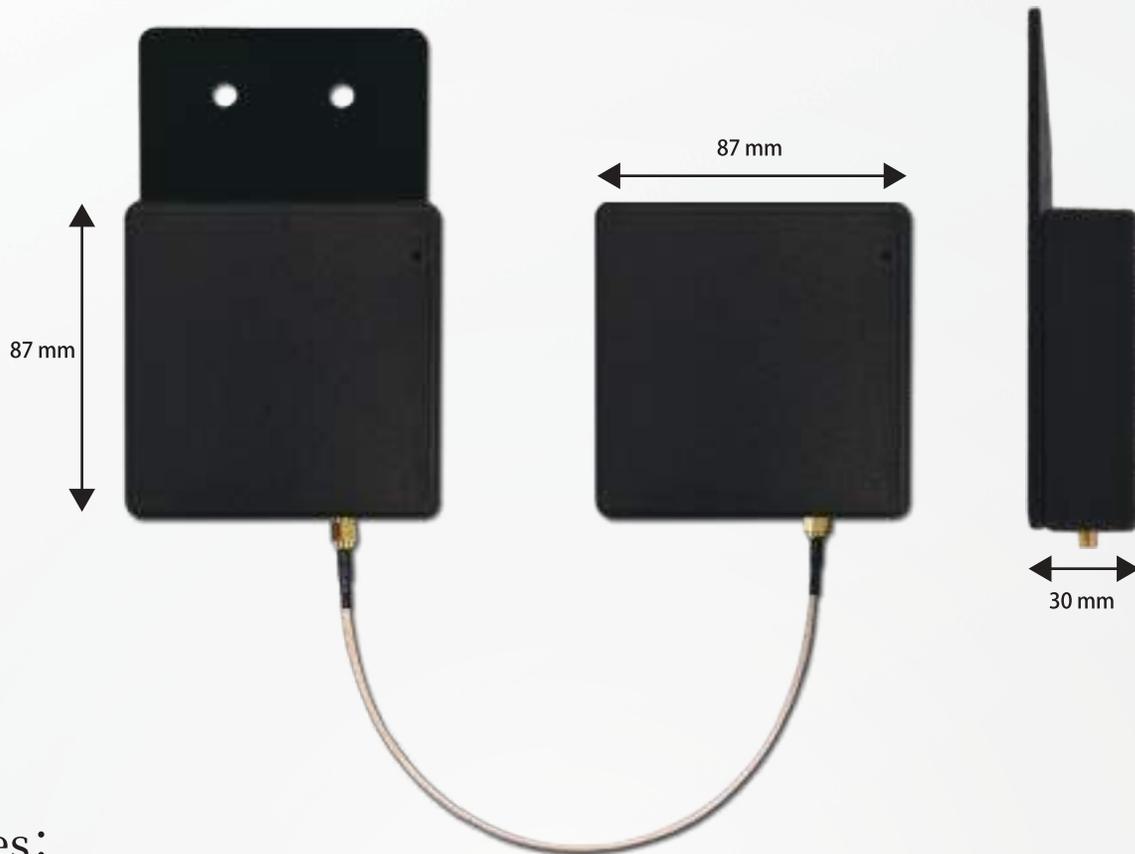
HF+UHF Dual-Band RFID Reader PRU-368



Features:

- Model: PRU-368
- Frequency Band: UHF 840~960MHz; HF 13.56 MHz
- Input Power: DC12V~24V
- Output Power: 30dBm (Max.)
- Protocol: ISO18000-6C、EPC C1G2; ISO-14443A/B/C、ISO-15693
- Interface: WiFi、RS-485 (3.3 VDC)、Wiegand (5 VDC)
- Reading Distance: UHF read range around 4m; HF read range 3cm \pm 1 cm
- Size: 130 x 82 x 29mm(LxWxH)
- Button: Doorbell
- Status Indicator: Buzzer、LED
- External Control:
 - Relay Outputs 32VDC 1.3A x 3; Sensor Inputs x 3
- Card Max Capacity: 10000
- Memory Max Capacity: 20000
- Supports: These interfaces allow the module to communicate with external devices such as computers, microcontrollers, or network servers.
- Advantages: The PRU-368 dual-band reader integrates "Aliro" technology, allowing smartphones to replace physical keys. iPhone and Android users can unlock doors simply by sensing their phones on the reader without downloading any application. The PRU-368 establishes a secure communication connection with mobile devices, providing users with a safe, stable, and reliable access control management system.
- Applications: Access control management, identity verification, attendance management.
- Certificate: CE、FCC、NCC
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan

PRU-08



Features:

- Model: PRU-08
- Frequency Band: NA: 902~928 MHz
EU: 865~868 MHz
TW: 922~928 MHz
- Protocol: ISO 18000-6C, EPC C1G2
- Output Power: 25dbm
- Interface: UART, USB-HID, USB Keyboard wedge, RS-232
- Power Supply: DC 5V
- Reading Distance: 4 m
- Size: 87 x 87 x 30 mm (L x W x H)
- Supports: These interfaces allow the module to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read tags.
- Applications: Supply chain management, storage management, library management.
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan

PRU-14



Features:

- Model: PRU-14
- Frequency Band: NA: 902~928 MHz
EU : 865~868 MHz
TW: 922~928 MHz
- Protocol: ISO18000-6C、EPC C1G2
- Interface: USB-HID、RS-232
- Power Supply: DC 12V
- Reading Distance: 3 m
- Size: 140 x 86 x 21 mm (L x W x H)
- Supports: These interfaces allow the reader to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Function: Can read multiple tags simultaneously.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates.
- Applications: Supply chain management, inventory management, access control, asset tracking.
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan

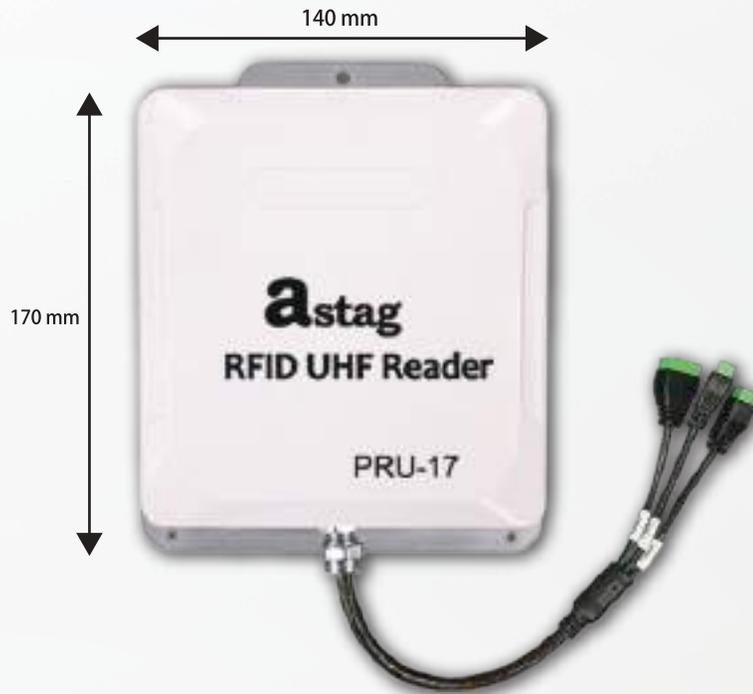
PRU-28



Features:

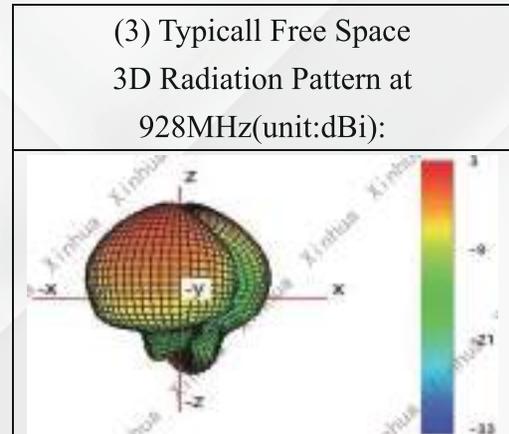
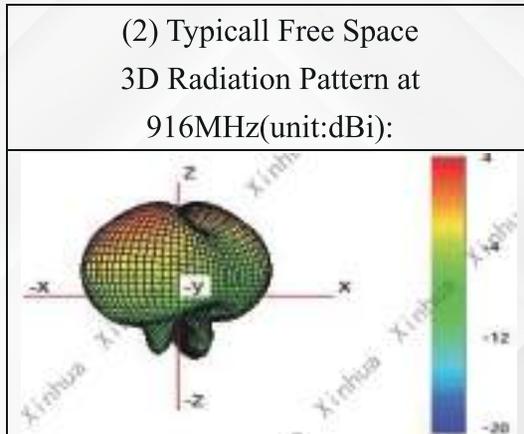
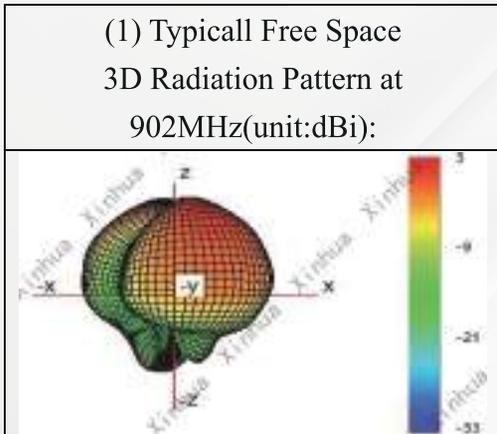
- Model: PRU-28
- Frequency Band: NA: 902~928 MHz
EU : 865~868 MHz
TW: 922~928 MHz
- Input Power: DC 12V~24V/2A
- Output Power: 30dbm / 1W
- Protocol: ISO 18000-6C·EPC C1G2
- Interface: USB·COM·UART·RS-485·RS-232
- Reading Distance: 10 m
- Size: 280 x 280 x 34.6 mm(L x W x H)
- Supports: These interfaces allow the module to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Other Supports: Can External Antenna·Control Switch connection.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read multiple tags.
- Applications: Supply chain management, storage management, library management.
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan

PRU-17



Features:

- Model: PRU-17
- Frequency Band: NA: 902~928 MHz
EU : 865~868 MHz
TW: 922~928 MHz
- Input Power: DC 12V~24V/2A
- Output Power: 30dbm / 1W
- Protocol: ISO 18000-6C、EPC C1G2
- Interface: USB-HID、UART、Wiegand、RS-485、I2C、SPI
- User Cards : 6000
- Memory Capacity : 12000
- I/O Functions: Output→Relay*1、Input→Optocoupler*1、Output/Input*2
- Reading Distance: 10 m
- Size: 140 x170 x 35mm(L x W x H)
- Supports: These interfaces allow the module to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Other Supports: Station Number、Can External Antenna、Control Switch connection.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read multiple tags.
- Applications: Supply chain management, storage management, library management.
- Certificate: CE、FCC、NCC
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan



PRU-17-2P/4P/6P



Features:

- Model: PRU-17-2P/4P/6P
- Frequency Band: NA: 902~928 MHz
EU: 865~868 MHz
TW: 922~928 MHz
- Input Power: DC 12V~24V/2A
- Output Power: 30dbm / 1W
- Protocol: ISO 18000-6C·EPC C1G2
- Interface: USB-HID· UART· Wiegand· RS-485· I2C· SPI
- User Cards : 6000
- Memory Capacity : 12000
- I/O Functions: Output→Relay*1· Input→Optocoupler*1· Output/Input*2
- Reading Distance: 10 m
- Size: 140 x 170 x 35mm(L x W x H)
- Supports: These interfaces allow the module to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Other Supports: Station Number· Can External Antenna· Control Switch connection.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read multiple tags.
- Applications: Supply chain management, storage management, library management.
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan

Model	Number of antennas
PRU-17-2P	2
PRU-17-4P	4
PRU-17-6P	6

PRU-15



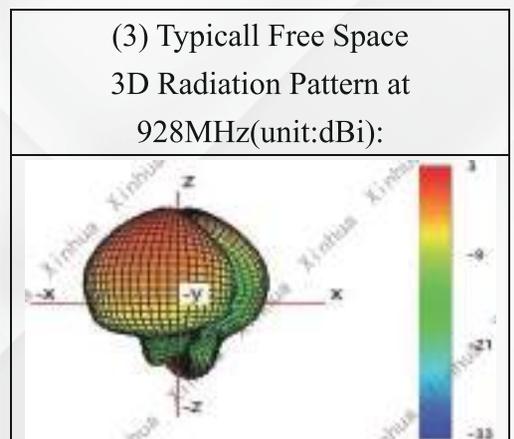
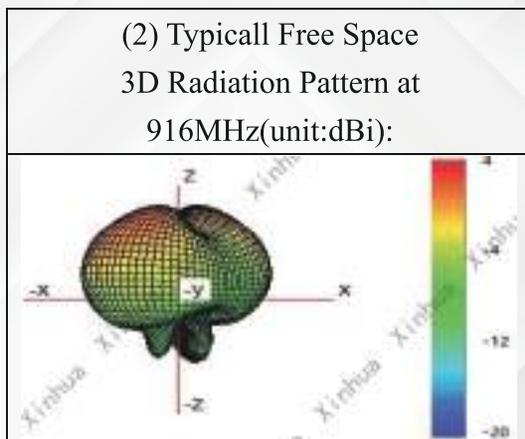
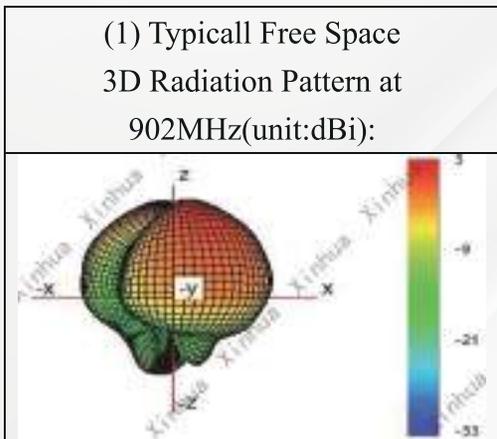
Features:

- Model: PRU-15R / PRU-15T
- Frequency Band: NA: 902~928 MHz
EU : 865~868 MHz
TW: 922~928 MHz
- Input Power: DC 12V~24V/2A
- Output Power: 30dbm / 1W
- Protocol: ISO 18000-6C·EPC C1G2
- Interface: PRU-15R→USB-HID·Wiegand34/26·RS-485·SPI·I2C
PRU-15T→USB-HID·Wiegand34/26·RS-485·SPI·I2C·

TCP/IP(PoE)

- User Cards : 6000
- Memory Capacity : 12000
- I/O Functions: Output→Relay*1·Input→Optocoupler*1·
Output/Input*2
- Reading Distance: 12 m
- Size: 130 x150 x 34mm(L x W x H)

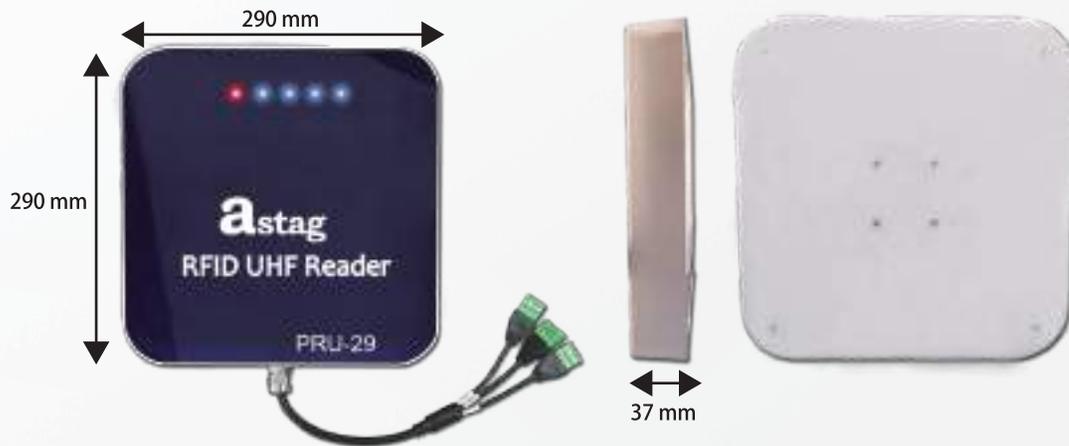
- Supports: These interfaces allow the module to communicate with external devices such as computers (Windows 10/11), microcontrollers, or network servers.
- Other Supports: Station Number·Can External Antenna·Control Switch connection.
- Function: Read/write, built-in antenna, can read multiple tags simultaneously, impact-resistant.
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read multiple tags.
- Applications: Supply chain management, storage management, library management.
- Certificate: CE·FCC·NCC
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan



RFID UHF Reader

UHF

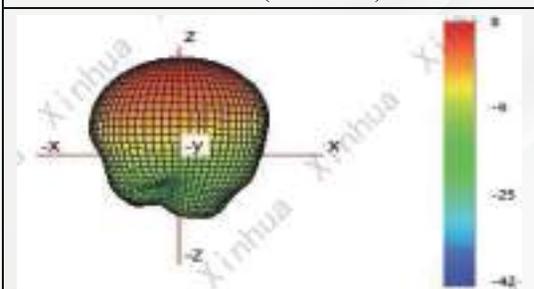
PRU-29



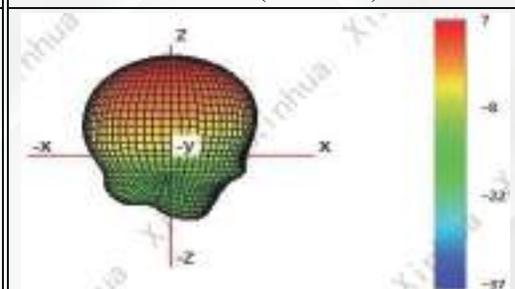
Features:

- Model: PRU-29R / PRU-29T
- Frequency Band: NA: 902~928 MHz
EU: 865~868 MHz
TW: 922~928 MHz
- Input Power: DC 12V~24V/2A
- Output Power: 30dbm / 1W
- Protocol: ISO 18000-6C、EPC C1G2
- Interface: PRU-29R→USB-HID、Wiegand34/26、RS-485、SPI、I2C
PRU-29T→USB-HID、Wiegand34/26、RS-485、SPI、I2C、TCP/IP(PoE)
- User Cards : 6000
- Memory Capacity : 12000
- I/O Functions: Output→Relay*1、Input→Optocoupler*1、Output/Input*2
- Reading Distance: 15 m
- Size: 290 x 290 x 37mm(L x W x H)
- I/O: Relay*1, Input*1, Output*4
- Supports: 1. Read tags from specific areas.
2. Automatic identification and filtering function.
3. Automatically adjust the tag reading speed according to the temperature of the reader.
- Other Supports: 1. Host thermal regulation.
2. Built-in I/O control.
3. Signal strength indicator light.
4. Operation response indicator light.
- Software Supports: Windows 10/11
- Function: Station Number Read/write, built-in antenna, can read multiple tags simultaneously, impact-resistant.
- Metal casing: Durable, impact-resistant, and anti-interference.
- Waterproof rating: IP68
- Advantages: UHF RFID technology offers advantages such as longer read ranges, higher data transfer rates, and the ability to read multiple tags.
- Applications: Industry 4.0, Industrial manufacturing, smart warehouse, smart agriculture, container management.
- Certificate: CE、FCC、NCC
- Customizable: Size / Design / Function / Interface specifications.
- Country of origin: Made in Taiwan

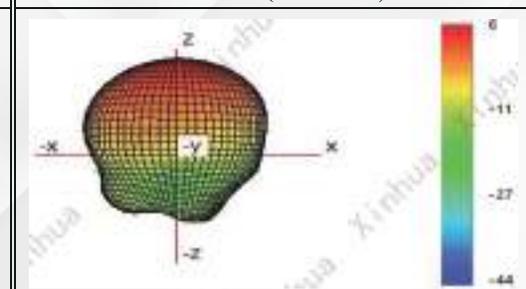
(1) Typical Free Space 3D Radiation Pattern at 902MHz(unit:dBi):



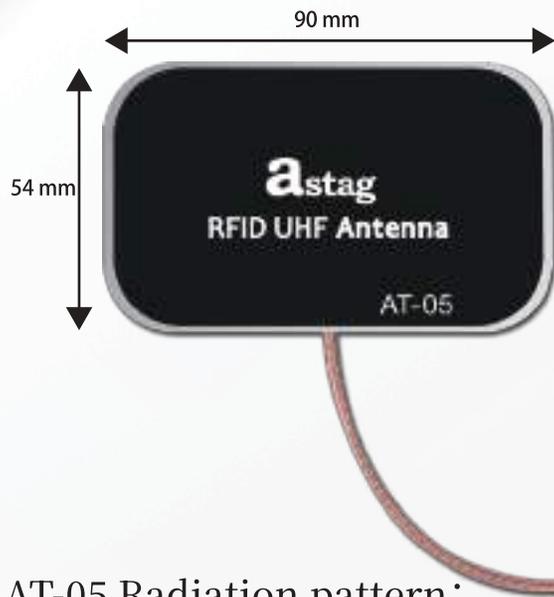
(2) Typical Free Space 3D Radiation Pattern at 916MHz(unit:dBi):



(3) Typical Free Space 3D Radiation Pattern at 928MHz(unit:dBi):



AT-05



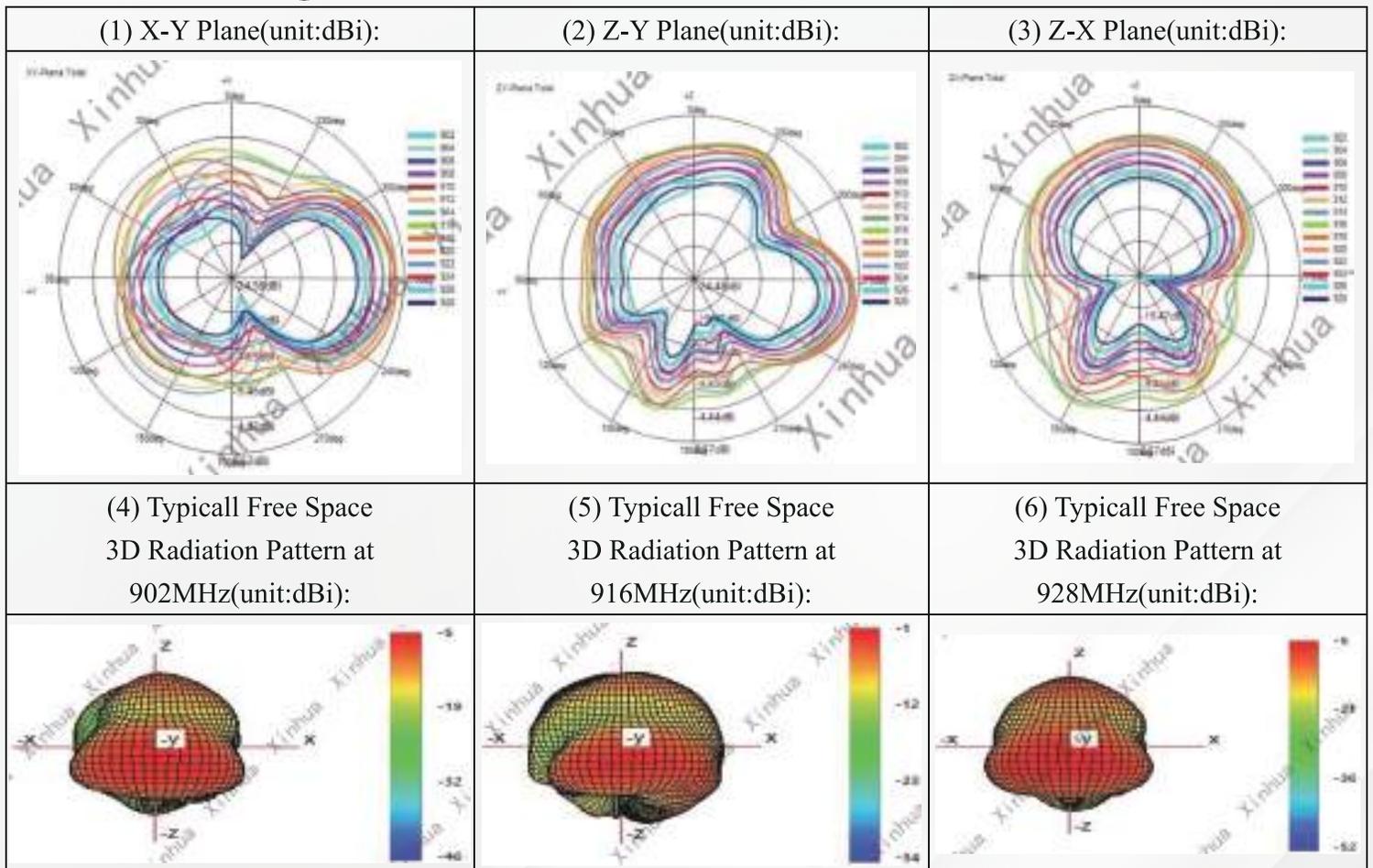
UHF

RFID UHF Antenna

Features:

- Model:AT-05
- Frequency band:915 MHz
- Gain:2dBi
- Polarization:Linear Polarization
- Impedance:50 Ω
- Connector:SMA male
- Size:90 x 54 x 20 mm(L x W x H)
- Customizable.
- Country of origin:Made in Taiwan

AT-05 Radiation pattern:



AT-08



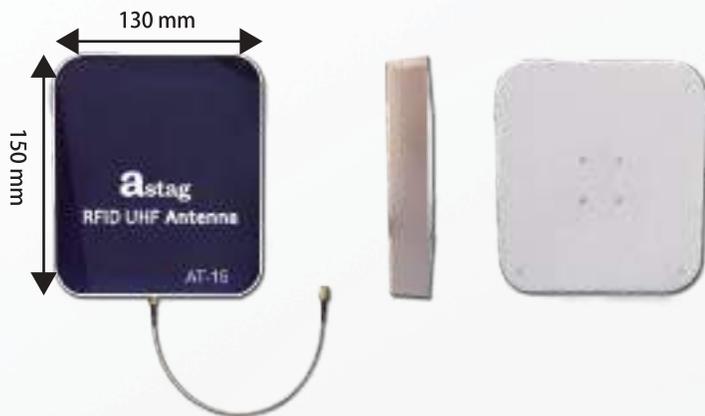
Features:

- Model:AT-08
- Frequency band:902~928 MHz
- Gain:5dBi
- Polarization:Linear Polarization
- Impedance:50 Ω
- Connector:SMA male
- Size:87 x 87 x 30 mm(L x W x H)
- Customizable.
- Country of origin:Made in Taiwan

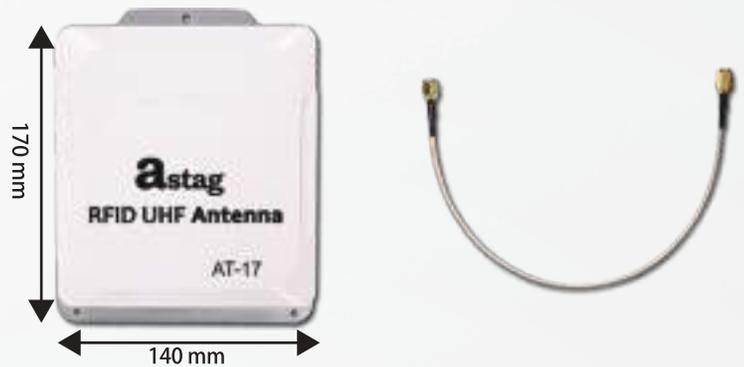
RFID UHF Antenna

UHF

AT-15



AT-17



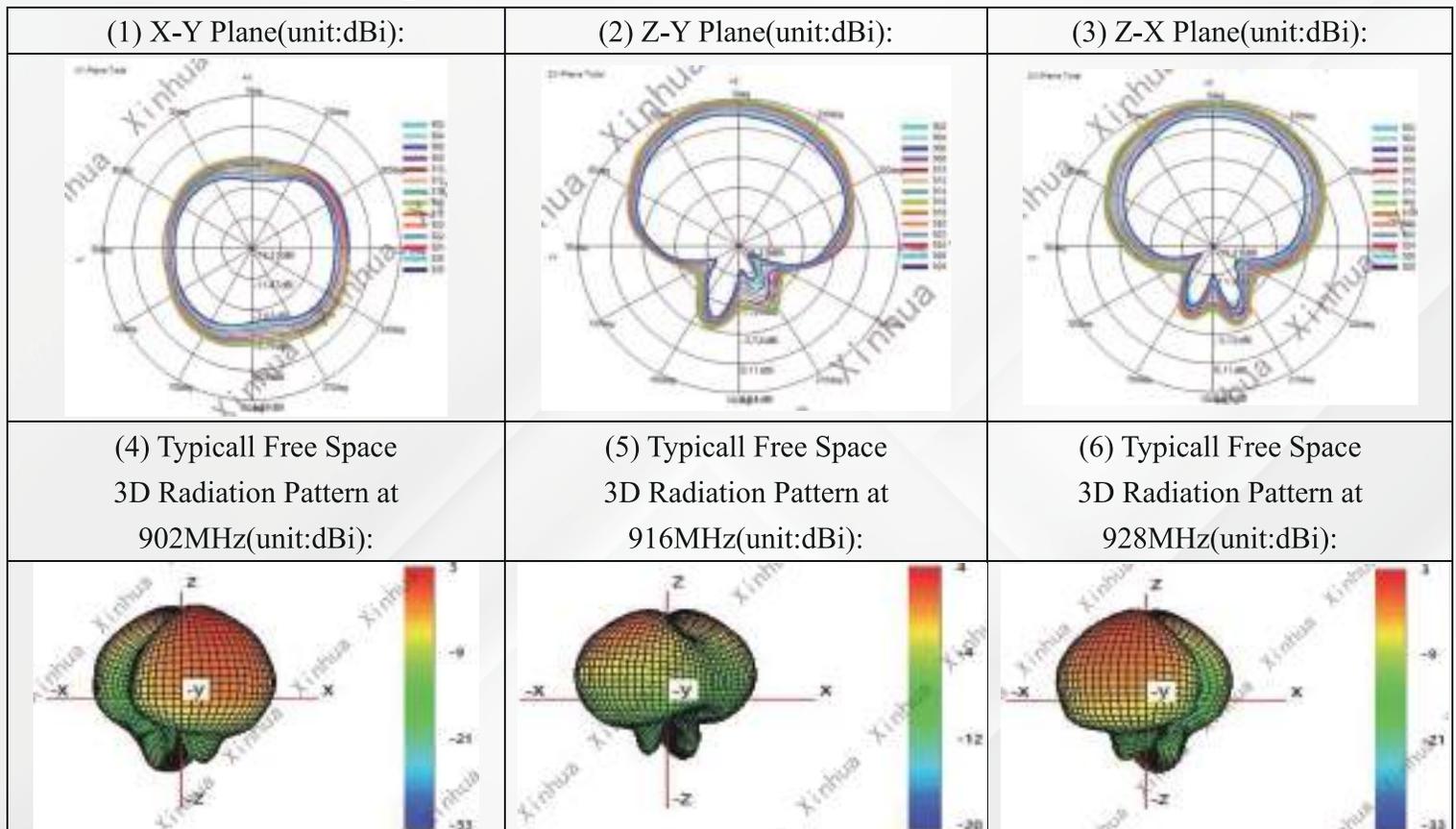
Features:

- Model:AT-15
- Frequency band:902~928 MHz
- Gain:8dBi
- Polarization:Linear Polarization
- Impedance:50 Ω
- Connector:SMA male
- Size:130 x150 x 26mm(L x W x H)
- Customizable.
- Country of origin:Made in Taiwan

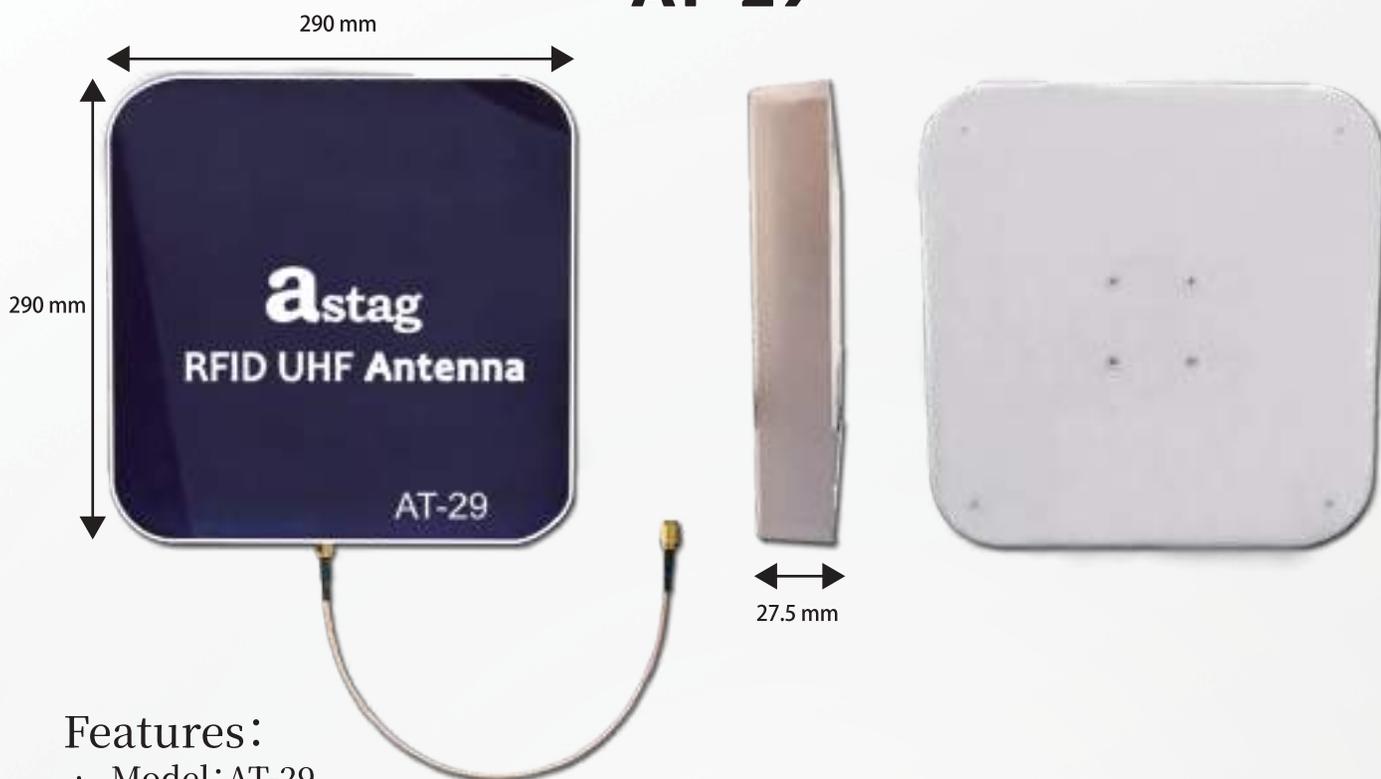
Features:

- Model:AT-17
- Frequency band:902~928 MHz
- Gain:8dBi
- Polarization:Linear Polarization
- Impedance:50 Ω
- Connector:SMA male
- Size:140 x170 x 35mm(L x W x H)
- Customizable.
- Country of origin:Made in Taiwan

AT-15、AT-17 Radiation pattern :



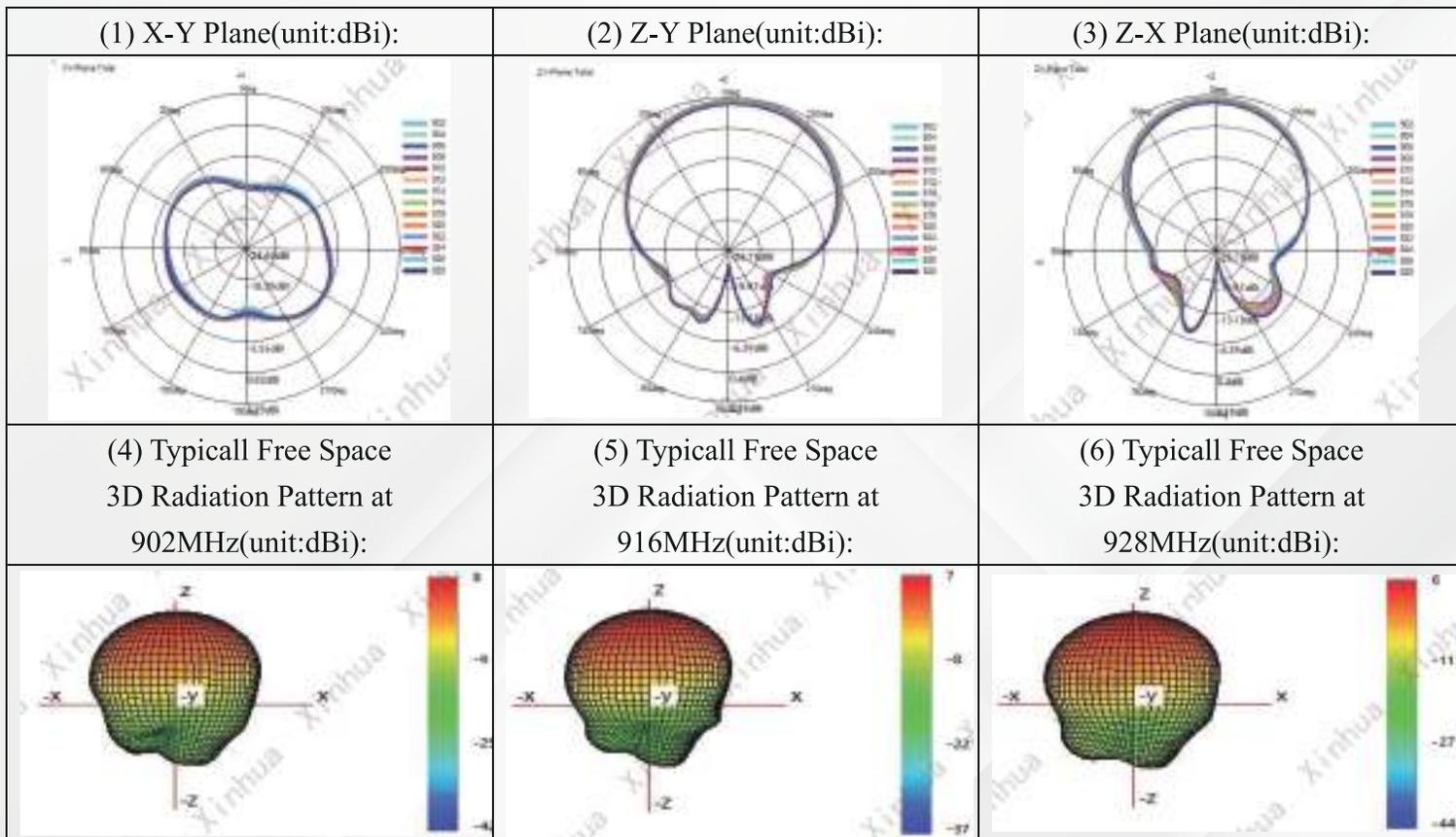
AT-29



Features:

- Model: AT-29
- Frequency band: 902~928 MHz
- Gain: 9dBi
- Polarization: Circular Polarization
- Impedance: 50 Ω
- Connector: SMA male
- Size: 290 x 290 x 27.5mm(L x W x H)
- Customizable.
- Country of origin: Made in Taiwan

AT-29 Radiation pattern :



Handheld RFID Reader

UHF

PRU-007



135 mm



145 mm



OLED



Features:

- Model: PRU-007-B025L
- Frequency Band: 902 ~ 928 MHz
- Protocol: ISO 18000-6C · EPC C1G2
- Interface: Wireless Transmission
- Battery: Built-in rechargeable battery (18650).
- Charging: Supports Micro USB charging.
- Size: 145 x 135mm
- Supports: Can transfer data to mobile devices such as smartphones, tablets, and laptops.
- Function: Due to the high device compatibility, it can be easily paired to the back-end server.
- Advantages: Can work on the move, easy to carry, strong and durable.
- Applications: Logistics management, warehouse management, animal management.
- Customizable: Function / Interface specifications.
- Country of origin: Made in Taiwan

PRU-005



Features:

- Model: PRU-005
- Frequency band: 902 ~ 928 MHz
- Protocol: ISO 18000-6C, EPC C1G2
- Interface: Waterproof Type C USB interface, supports USB2.0 HighSpeed, supports OTG.
- Power supply: ≥ 11700 mAh (Host 5000mAh + Handle 6700mAh replaceable)
- Charge: Type C USB port at the bottom, supports QC3.0 fast charging, and can intelligently identify PC and charger.
- Size: 170 x 80 x 16.4mm (L x W x H)
- Display screen: 5.5-inch display, capacitive touch.
- Sensor: G-sensor, light sensor, distance sensor, electronic compass, gyroscope.
- CPU: Octa-core 2.0GHz
- Operating System: Android 11
- Storage Expansion: Micro SD Card, maximum compatible with 256GB
- Operation Temperature: $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- Storage Temperature: $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (Batteries included)
 $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (No batteries included)
- Waterproof: IP67



Specifications:

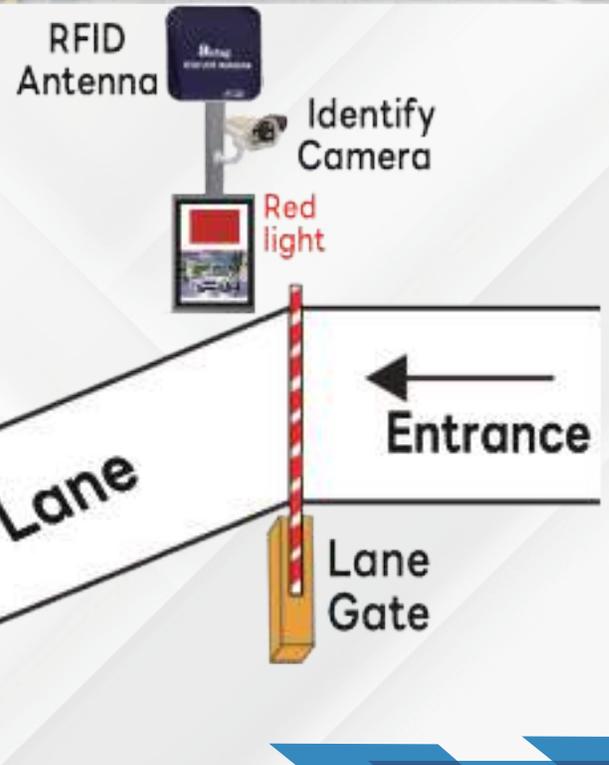
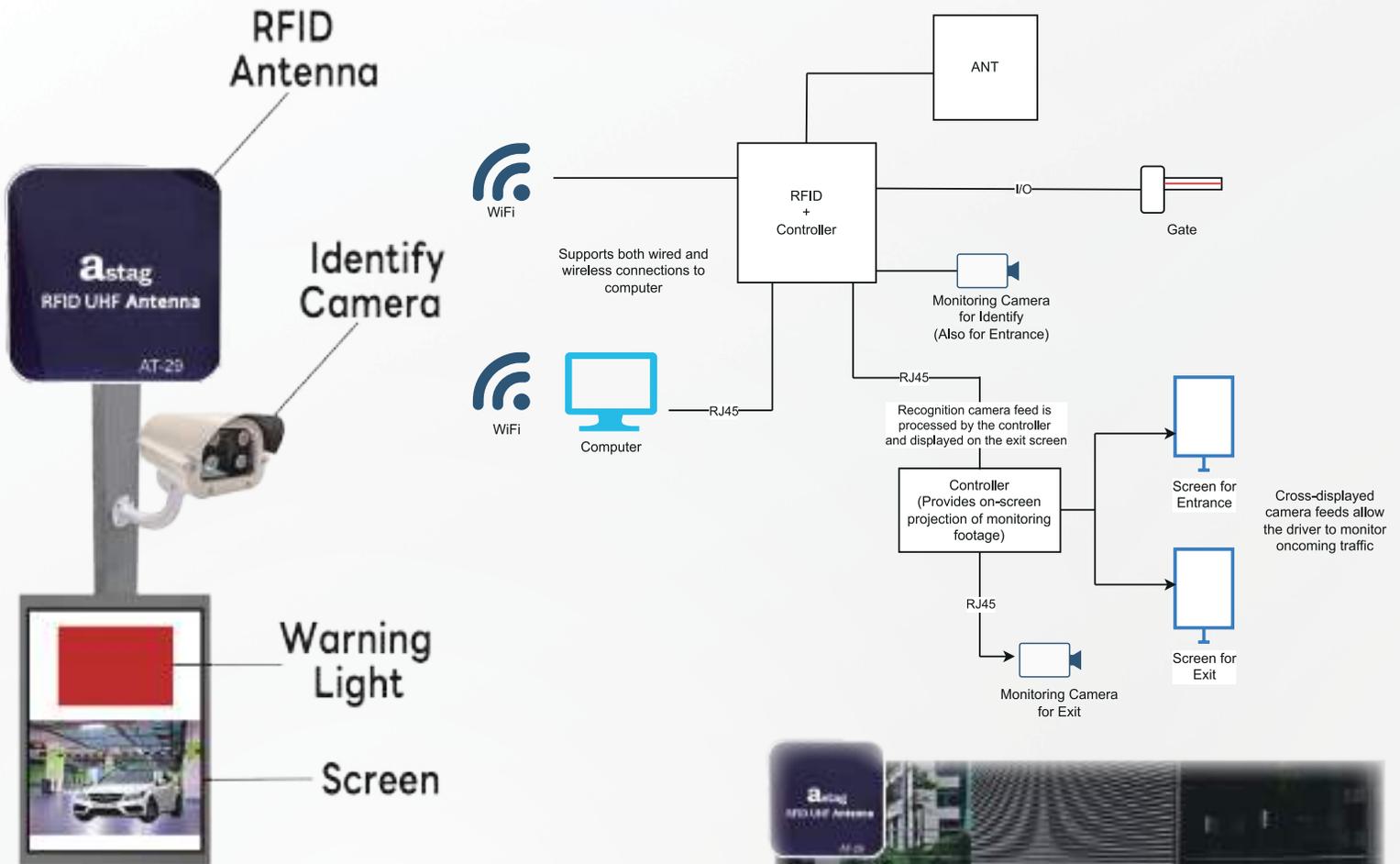
- Recognition Distance: 2 ~ 12 m
- Power Supply: 12V DC
- Power Consumption: $\leq 4W$
- Operating Temperature: $-30^{\circ}C \sim 75^{\circ}C$
- Protection: IP65
- Overall Dimensions: 290 x 102 x 95 mm (L x W x H)
- Vehicle speed: 45 km/h
- Whitelist of license plates: Adopt rules to accurately, intelligently and fuzzily match license plates in the whitelist.

System Features:

- Basic configuration:
 1. Embedded intelligent ISP (Image Signal Processor) algorithm.
 2. Able to intelligently optimize the dimming algorithm.
 3. Basic parameters (brightness/definition/gain/ exposure time) can be set independently.
- Sensor: 4 Megapixel starlight CMOS.
- Multifunctional identification: license plate recognition, license plate anti-counterfeiting, and no license plate detection.
- Intelligent calibration: Able to calibrate the license plate number, license plate type and license plate color intelligently with the accurate or wildcard methods.

Remote Management:

- Cloud management: Remotely manage a single camera, uniformly manage multiple cameras through the account, and support the cloud SDK development management platform.
- Communication protocol: SDK, HTTP, MQTT, ONVIF, RTSP, TCP/IP, UDP, NTP, DHCP.
- Management protocol: PC mobile terminal management, PC management tools, SDK development suites, and HTTP push.



B1
Exit

Car

Parking Lane

Entrance

Lane Gate



辰皓電子股份有限公司

Asia Smart Tag Co., Ltd

TEL : 886-4-23826318

FAX : 886-4-23820783

<https://www.astag.com/>

E-mail : astag@astag.com

No. 475, YongChun E. 3rd Rd.,

Nantun Dist., Taichung,

City 408, Taiwan (R. O. C.)

台中市 4 0 8 南屯區永春東三路 4 7 5 號