DreamLNK®

LoRa FSK 2.4G Wi SUN SparkLink

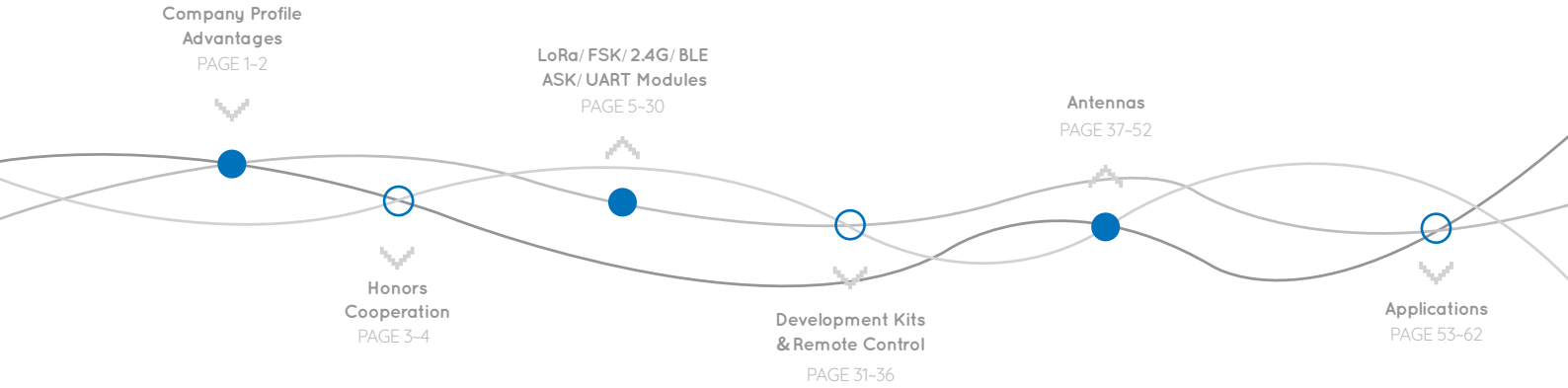
Wireless Expert

RF Module and One-stop IoT Solution Provider

www.iot-rf.com

CONTENTS

Stay Honest, Stay Proactive!



COMPANY PROFILE

4500 m²
Factory

30+
Patents

12 Years +
RF Experience

800+
Projects

About Us

DreamLNK, founded in 2013, is a professional high-tech enterprise specializing in ISM band micro-power wireless communication technology. As a member of the CLAA (China LoRa Application Alliance), and third-party design office of Texas Instruments (TI), Nordic, Semtech, Silicon Labs, BEKEN, we have been honored with the title of 'National High-Tech Enterprise' in year 2020. Moreover, we are also the general agent of HOPERF, and a strategic partner of PANCHIP.

From the first day of its establishment, DreamLNK is committed to providing our clients with high - performance Wireless Modules and customized RF related products. After years of development, DreamLNK has developed a series of mature radio frequency products, including 2.4G RF modules, UART modules, LoRa modules, FSK modules, ASK TX/RX modules, Bluetooth modules, ChirpIoT Modules, etc. Meanwhile, we have invested an antenna factory in Dongguan few years ago, thus we also provide high quality Antennas.

Nowadays,our complete product line is increasingly used in AMR (Auto Metering Reading), Smart Home, Smart Agriculture, Wireless Remote Control, Building Automation, Wireless Sensor Networking, Children Education, Environmental Monitoring, Energy Control and Management, etc.

Relying on our professional R&D team, abundant RF experiences, high-precision testing & measuring equipment, and strict quality control system, we are always providing our clients first-class reliable product with consistency quality, professional after-sales service, and comprehensive technical support.

ADVANTAGES

OEM/ODM Service Provided

Customized Wireless Modules Available
Personalized IoT Solutions Supported
Tailor-made Internal/External Antennas

Production Capacity

First-class Production Equipment
High-precision Measuring & Testing Equipment
Professional Team with Rich Experience

Strict Quality Control

100% Original Packing Certified Components
Strict Incoming Quality Control Standard
100% Quality Inspection Before Shipment

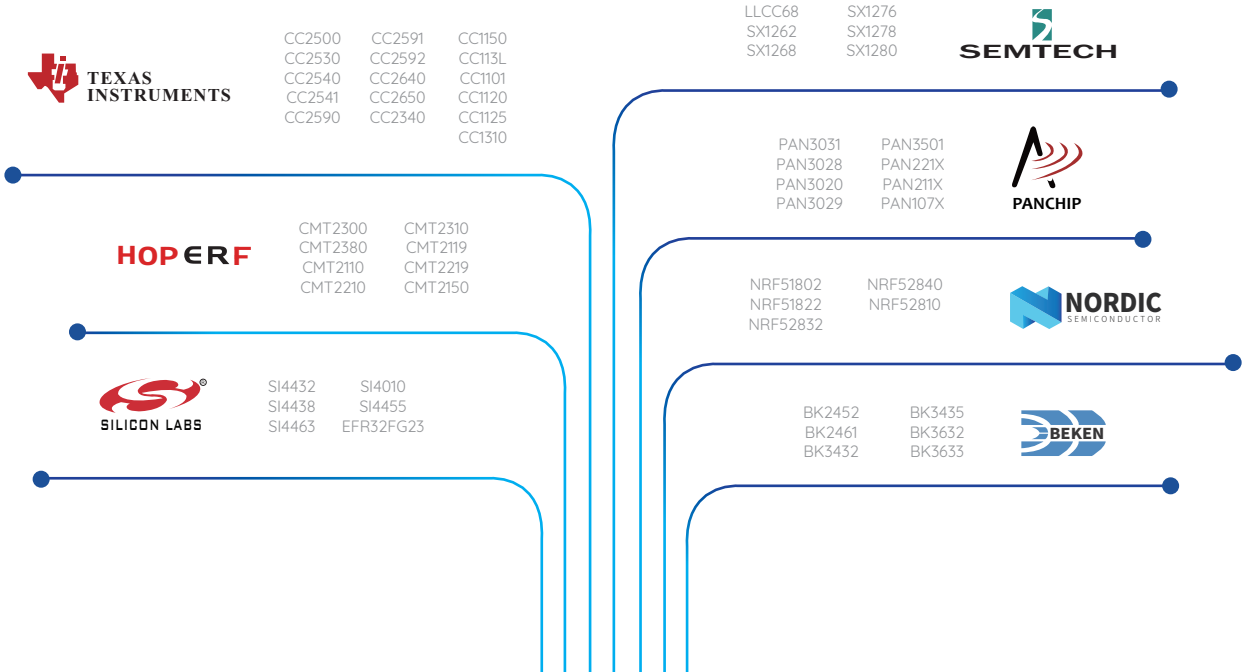
Our subcontracting factory has high-precision automated SMT mounting line, wave soldering assembly line, advanced anechoic chamber, various high-frequency testing instruments and digital signal sources, which can test all kinds of radio frequency parameters. From material purchasing, manufacturing, ESD protection, to quality inspection, logistics and warehousing, we have a standard management system to provide standardized guidance for our employees, which can ensure us to provide you first-class reliable product, with consistency quality.

HONORS

Most of the products are FCC, CE, RoHS, REACH certified, and DreamLNK also has more than 30 software copyrights & 30 RF patents!

COOPERATION

As a third-party design office of well-known brands (TI, Semtech, Silicon Labs, Nordic), DreamLNK has maintained deep cooperation with them for a long time. Adhering to the strategy of sustainable development, DreamLNK has developed more than 300 high-performance wireless modules, and the products have a high popularity and reputation in the Sub-1Ghz & 2.4Ghz wireless communication industry. We look forward to working with you hand in hand to build an intelligent world where everything can be connected!



New Release

Industrial-grade EFR32FG23 UART Wireless Module

Built-in ARM Cortex-M33 processor

Multiple Protocols: Wi-SUN/ Sidewalk/ WM-BUS/ Wirepas / Connect / FSK / OQPSK / MSK / OOK

SILICON LABS

DL-EFG23-B (433/868/915Hz)

Technical Parameters

- Model: DL-EFG23-B
- Chip: EFR32FG23
- Voltage Range: 1.7~3.8V
- RX Current: 8mA
- TX Current: 145mA@20dBm
- Sleep Current: <1uA
- Working Frequency: 433/868/915MHz
- Temperature: -40~85 C
- RX Sensitivity: -123dBm
- Max. TX Power: 20dBm
- Product Size: 20.16x17.46mm
- Reference Range: 3km

Strong Anti-Interference

Two-way Communication

Ultra-Low Power

High Sensitivity

High Data Rate

Low-code Solution

New Release

DL-SX1276PA-HF (868/915MHz)

DL-SX1276PA (433MHz)

SX1276 LoRa Module (with PA & TCXO)

Output power @13dBm when PA is disabled

Output power up to 30dBm when PA is enabled

Strong Anti-jamming | Ultra-Long Range | Switchable TCXO & PA | High Sensitivity | Safe & Reliable

Technical Parameters

- Working Voltage: 3.3~5.5V
- Temperature: -30~85℃
- Dimension: 25x37mm
- Receiving Current: 15.3 mA
- LoRa Rate Range : 0.018~37.5Kb/s
- TX Current: 850mA
- Max. TX Power: 30dBm
- Max. LoRa Receiving: -144dBm
- Reference Range: 6.5km

Best Seller

CC1310 Transparent UART Module

Wake-on-Radio & Clear Channel Assessment

AT Command/ Transparent Transmission

TEXAS INSTRUMENTS

DL-CC1310-B (433/868/915MHz)

Technical Parameters

- Chip: CC1310
- Working Frequency: 433/868/915MHz
- Clock Speed: 48MHz (MCU)
- Kernel: Arm Cortex-M3
- Voltage Range: 1.8~3.8V
- Max. TX Power: 15dBm
- RX Current: 5.5mA
- RX Sensitivity: -124dBm@0.625kbps
- TX Current: 17mA@10dBm 27mA@14dBm
- Transmission Rate: 0.6~500Kbps (Max. 4Mbps)
- Working Temperature: - 40~85 ℃
- Dimension: 18x16. 5mm
- Sleep Current: <1uA (eWOR)
- Reference Range: 800m

Strong Anti-jamming

SOC Integrated RF Module

Narrow Band

High Sensitivity

Low Power Receiving

Low-code Solution

Best Rated

DL-LLCC68-S (433/868/915MHz)

FSK/LoRa Module with SEMTECH LLCC68

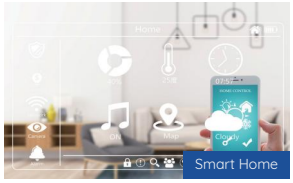
Strong Anti-jamming | Ultra-Long Range | Safe&Reliable | High Sensitivity

Technical Parameters

- Working Voltage: 1.8~3.7V
- Temperature: -40~85℃
- Receiving Current: 4.5mA
- Sleep Current: <1uA
- Transmission Rate: 1.76~62.5Kb/s
- Dimension: 17.1x16.1mm
- Max. TX Power: 22dBm
- Max. RX Sensitivity: -129dBm
- Reference Range: 2.5km


Smart Traffic


Wireless Meter Reading


Smart Home


Industrial IoT

Recommended

BLE 5.3 + 2.4G Dual-mode RF Transceiver module

Large-scale Mesh self-networking & master-slave multi-connection.

Low Power Consumption | OW3621 SoC Chip

Ceramic Antenna (Default)
DL-OW3621-T

IPEX-4 Version (Optional)
DL-OW3621-X

Technical Parameters

- Chip: OW3621
- Size: 8.64x14.19mm
- Flash: 256 KB
- Voltage Range: 1.8~3.6V
- RX Current: 7.5mA
- TX Current: 13mA@ +0dBm , 18mA@5dBm
- Working Frequency: 2360~2510MHz
- Sensitivity: -99dBm
- Transmission Power Range: -50~12dBm
- Working Temperature: - 40~85℃
- Sleep Current: <1uA
- Supports 500 Kbps / 1 Mbps / 2 Mbps and S2/S8 Long Range

  RTC: ultra-low power consumption, scheduled data acquisition, remote monitoring, battery-powered devices

Master-Slave Integration

Bluetooth Mesh

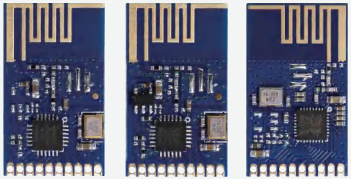
BLE+2.4G

High Sensitivity

Ultra-Low Power

48MHz Cortex-M0+

Recommended



DL-BK24K6-TX/ 52TX/ RX

2.4G Switching Control Wireless Modules

One to one
One to many
Many to many

ISM Free Band

Safe & Reliable

W/O Programming

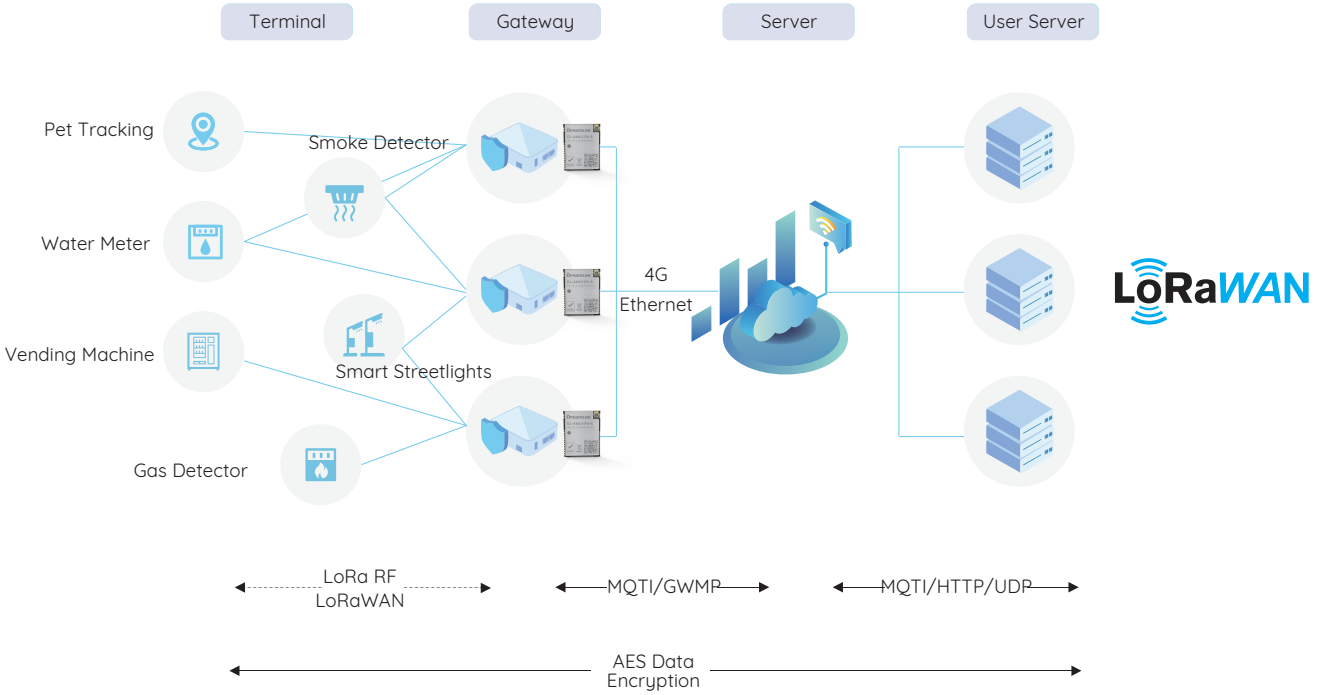
Technical Parameters

- Interface: I/O
- Working Voltage: 2.8~3.6V
- Transmission Power: TX@12dBm, 52TX@5dBm
- Max. RX Sensitivity: -96dBm
- Receiving Current: 23mA
- Transmitting Current: TX@90mA, 52TX@20mA
- Sleep Current: TX@10~12uA, 52TX@5~10uA
- Dimension: 23.3x13.9mm
- Reference Range: 100m

LoRaWAN Protocol

Customizable

DL-A6601PA-B and DL-A6601-B are LoRaWAN Modules developed based on the ASR6601 chip with TCXO and PA, supporting ultra long-distance communication of about 7km, with high receiving sensitivity.



LoRa Modules

Model No.	DL-A6601-B	DL-A6601PA-B	DL-LLCC68-S
Picture			
Interface	UART	UART	SPI
Chip	ASR6601	ASR6601	LLCC68
Voltage Range	1.7~3.9V	3.4~5.4V	1.8~3.7V
Typical Voltage	3.3V	3.3V	3.3V
Working Temperature	-40~85°C	-40~85°C	-40~85°C
Receiving Current	6.5mA	6.6mA	4.5mA
Transmitting Current	115mA@22dBm	700mA@29dBm	107mA@17dBm @868/915MHz
Working Frequency	433/470/868/915MHz	433/470MHz	433/470/868/915MHz
Sleep Current	<2uA	<5uA	<1uA
Max. TX Power	22dBm	30dBm	22dBm
Max. RX Sensitivity	-148dBm	-148dBm	-129dBm
Dimension	17.5x20.4mm	20.5x26mm	17.1x16.1mm
Reference Range	4km	7km	2.5km

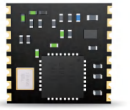
LoRa Modules

Semtech Series

Model No.	DL-LLCC68-PA	DL-M-SX1278S2	DL-SX1278PA
Picture			
Interface	SPI	SPI	SPI
Chip	LLCC68	SX1278	SX1278+PA
Voltage Range	3.3~5.5V	1.8~3.6V	3.3~5.5V
Typical Voltage	5V	3.3V	5V
Working Temperature	-40~85°C	-40~85°C	-40~85°C
Receiving Current	5.2mA	10.8mA	17mA
Transmitting Current	1200mA@30dBm	120mA@20dBm	600mA@29.5dBm
Working Frequency	433/470MHz	433/470MHz	433/470MHz
Sleep Current	<5uA	<1uA@3.3V	<10uA
Max. TX Power	29.5dBm	20dBm	30dBm
Max. RX Sensitivity	-144dBm@0.49kbps	-133dBm@1.2Kbps(Max. -149dBm)	-133dBm@1.2Kbps (Max. -149dBm)
Dimension	39.2x25mm	17.1x16.1mm	37x25mm
Reference Range	6km	3km	6km

Model No.	DL-SX1276PA-HF	DL-RFM95	DL-RFM96
Picture			
Interface	SPI	SPI	SPI
Chip	SX1276	SX1276	SX1276
Voltage Range	3.3~5.5V	1.8~3.7V	1.8~3.7V
Typical Voltage	5V	3.3V	3.3V
Working Temperature	-30~85°C	-20~70°C	-20~70°C
Receiving Current	15.3mA	10.8mA	10.8mA
TX Current	850mA@29.5dBm	120mA@20dBm	120mA@20dBm
Working Frequency	868/915MHz	868/915MHz	433/470MHz
Sleep Current	<5uA	<1uA	<1uA
Max. TX Power	29.5dBm	-1~19.5dBm	-1~19.5dBm
Max. RX Sensitivity	-144dBm@0.49kbps	-133dBm@1.2Kbps (MAX. -149dBm)	-133dBm@1.2Kbps (MAX. -149dBm)
Transmission Rate	1.2~300Kbps @FSK	1.2~300Kbps @FSK	1.2~300Kbps @FSK
	0.018~37.5Kbps @LoRa	0.018~37.5Kbps @LoRa	0.018~37.5Kbps @LoRa
Dimension	37x25mm	16x16mm	16x16mm
Reference Range	6km	3km	3km

FSK Modules

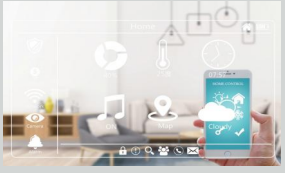


DL-A7149-S
(433/868/915MHz)

- Chip: A7149
- Sleep Current: 0.2uA
- Working Voltage: 2.2~3.6V
- Max. TX Power: 20dBm
- Temperature: -40~85℃
- Max. RX: -119dBm
- Frequency: 433/868/915MHz
- Dimension: 12.5x12mm
- Receiving Current: 1.8 ~3.8mA @DCDC
- Transmitting Current: 97~137mA @433MHz
  78~118mA @868/915MHz

- Compact size, SMD stamp edge half-hole encapsulation;
- Modulation method: FSK/GFSK;
- Working Voltage: 2.2~3.6V;
- Chip support speed range: 2-250Kbps;
- Independent 64BYTE transmit/receive data buffer;
- Supports RSSI signal strength detection.

Applications



Smart Home

Smart Lock
Sweeper Robot
Smart Curtain
Window/Door Sensor
VR Equipment
... ...

Industrial Control

Crane Remote Control
Electric Windlass Control
Industrial Elevator
Frequency Conversion
Speed Governing
... ...

Data Acquisition

Remote Meter Reading
Water/Electricity/Gas Meter
Greenhouse Wireless Data
Portable Data Collector
Energy Control
... ...

Security System

Firefighting System
Digital Patrol System
Smoke Detector
Wireless Monitor
PIR Detector
... ...

FSK Modules

Silicon Labs/Semtech Series

Model No.	DL-RTS4438	DL-RTS4432	DL-RTS4463	DL-RFM69HC
Picture				
Chip	Si4438	Si4432	Si4463	SX1231
Working Voltage	1.8~3.6V	1.8~3.6V	1.8~3.6V	1.8~3.6V
Receiving Current	<14mA	<20mA	<13mA	16mA
Transmitting Current	75mA@20dbm	85mA@20dbm	85mA@20dbm	95mA@17dBm
Working Temperature	-40~85°C	-40~85°C	-40~85°C	-40~85°C
Working Frequency	433MHz	433MHz	433MHz	315/433/868/915MHz
Sleep Current	<1uA	<1uA	<1uA	<1uA
Max. TX Power	20dBm	20dBm	20dBm	-18~16.5dBm
Max. RX Sensitivity	-121dBm	-121dBm	-124dBm	-123dBm
Dimension	15x12.5mm	16x16mm	16.15x12.5mm	16x16mm
Reference Range	1.5km	1.2km	1.6km	1.5km

FSK Modules

Model No.	DL-RTC1101	DL-RXC113L	DL-TXC1150
Picture			
Chip	CC1101	CC113L	CC1150
Working Voltage	1.8~3.6V	1.8~3.6V	1.8~3.6V
Receiving Current	<16mA	<16mA	-
Transmitting Current	30mA@10dBm	-	30mA@10dbm
Working Temperature	-20~75°C	-20~75°C	-20~75°C
Frequency	433MHz	433MHz	433MHz
Sleep Current	<1uA	<1uA	<1uA
Max. TX Power	10dBm	-	10dBm
Max. RX Sensitivity	-114dBm	-114dBm	-
Dimension	19x17 / 17x11.7mm	19x17mm	19x15mm
Reference Range	500m	500m	500m

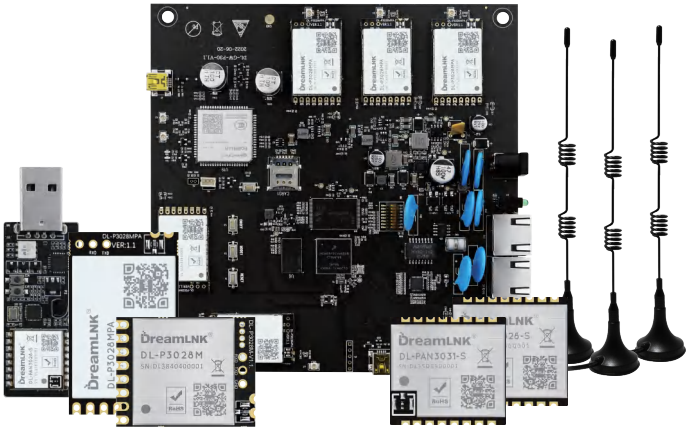
FSK Modules

Model No.	DL-RTM300	DL-RXC2219A	DL-TXC2119A	DL-RTA7149
Picture				
Chip	CMT2300A	CMT2219A	CMT2119A	AMICCOM A7149
Working Voltage	1.8~3.6V	1.8~3.6V	1.8~3.6V	2.2~3.6V
Receiving Current	7~10mA @433MHz 7.5~10.5mA @868MHz 7.5~10.5mA @915MHz	40mA@13dBm	-	1.8mA
Transmitting Current	75~95mA @433MHz 80~90mA @868MHz 85~95mA @915MHz	-	40mA@13dBm	98mA@868MHz/915MHz: 17dBm
Working Temperature	-40~85°C	-40~85°C	-40~85°C	-40~85°C
Frequency	433/868/915MHz	868MHz	868MHz	433/868/915MHz
Sleep Current	<1.5uA	<1uA	<1uA	0.2uA
Max. TX Power	20dBm	13dBm	13dBm	20dBm
Max. RX Sensitivity	-120dBm	-	-	-119dBm
Dimension	16x16mm	15x12.5mm	15x12mm	12.5x12mm
Reference Range	1.6km	600m	600m	1.2km

ChirpLAN™ IoT Solutions

Gateway + Terminal + Server

PAN3028/3031 | Nodes >500 | High Security | >5km



ChirploT Modules

Model No.	DL-PAN3031-S	DL-PAN3028-S	DL-PAN3029-S	DL-P3028M	DL-P3028MPA
Picture					
Chip	PAN3031	PAN3028	PAN3029	PAN3028	PAN3028+PA
Interface	SPI	SPI	SPI	UART	UART
Voltage Range	1.8~3.6V	1.8~3.6V	2~3.6V	3.3V	3.5~5.5V
Frequency	433/868/915MHz	433MHz	433/868/915MHz	433MHz	433MHz
TX Power	22dBm	22dBm	20dBm	22dBm	32dBm
RX Sensitivity	-128dBm	-138dBm	-141dBm	-138dBm	-138dBm
Receiving Current	＜20mA	＜20mA	**4mA@ DCDC**	24mA	24mA
Transmitting Current	＜145mA	＜145mA	95mA@20dBm	165mA	-
Sleep Current	＜0.5uA	＜0.5uA	0.1uA	1.6uA	57uA
Transmission Rate	1.76~21.8kbps	0.16~21.8kbps	0.15~62.5kbps	0.16~21.8kbps	0.16~21.8kbps
Dimension	17.1x16.1mm	17.1x16.1mm	17.1x16.1mm	26x20.5mm	34.3x20.5mm
Reference Range	3km	3km	4km	3km	6km

SPI Interface, More Applications

• Footprint File Can be Provided • • Software Demo • • Instruction Manual • • Online Technical Support •

Model No.	DL-24TRGC	DL-24D8A-C	DL-24PA	DL-24PA-C
Picture				
Working Voltage	DC1.8~3.6V	DC1.8~3.6V	DC1.8~3.6V	DC1.8~3.6V
Max. RX Sensitivity	-105dBm	-105dBm	-103dBm	-103dBm
Receiving Current	<15mA	<15mA	<18mA	<18mA
Transmitting Current	<25mA	<25mA	<110mA	<110mA
Reference Range	80m	80m	300m	300m

2.4G Modules

Model No.	DL-BK24K6-TX	DL-BK24K6-RX	DL-BK24K6-52TX	DL-M-BK2461U	DL-24BK25
Picture					
Interface	I/O	I/O	I/O	UART	SPI
Working Voltage	2.8~3.6V	2.8~3.6V	2.0~3.6V	2.5~3.6V	1.9~3.6V
Max. TX Power	12dBm	-	5dBm	0~11dBm	4dBm
Max. RX Sensitivity	-	-96dBm	-	-90dBm	-85dBm
Receiving Current	-	23mA	-	20mA	<16.5mA
Transmitting Current	90mA	-	20mA	40mA	18mA@4dbm
Sleep Current	10~12uA	-	5~10uA	<10uA	<1uA
Dimension	23.3x13.9mm	23.3x13.9mm	23.3x13.9mm	23.3x13.7mm	18x12.2mm
Reference Range	100m	100m	100m	100m	100m

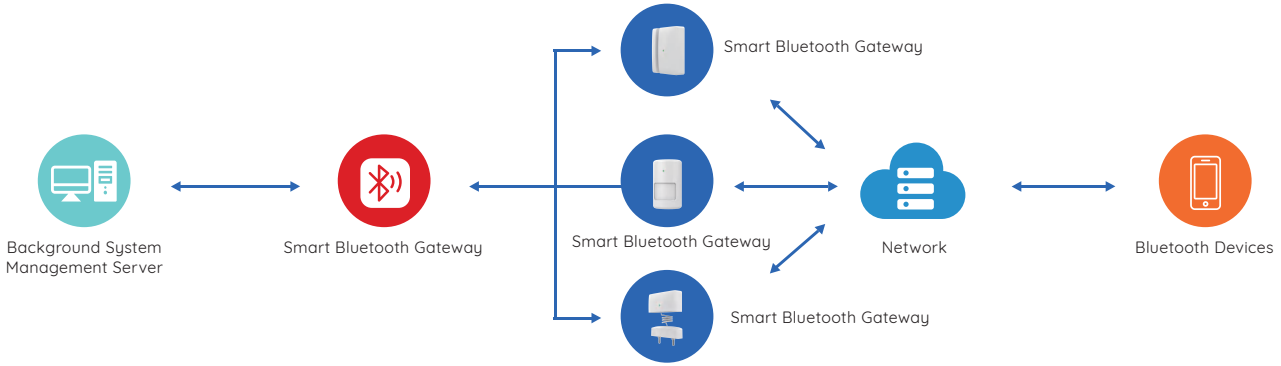
2.4G Modules

Model No.	DL-24N	DL-24N-S	DL-24N-I	DL-24NPA
Picture				
Chip	NRF24L01	NRF24L01	NRF24L01	NRF24L01
Interface	I/O	I/O	I/O	SPI
Working Voltage	1.9~3.6V	1.9~3.6V	1.9~3.6V	1.8~3.6V
Max. TX Power	-6dBm	-6dBm	-6dBm	20dBm
Max. RX Sensitivity	-95dBm	-95dBm	-95dBm	-94dBm
Receiving Current	14mA	14mA	14mA	23mA
Transmitting Current	12mA@0dBm	12mA@0dBm	12mA@0dBm	150mA@20dBm
Transmission rate	1.2~2000Kbps	1.2~2000Kbps	1.2~2000Kbps	250k~2Mbps
Sleep Current	0.9uA	0.9uA	0.9uA	1uA
Dimension	19x12mm	19x12mm	19x12mm	19.25x13mm
Reference Range	100m	100m	120m	300m

2.4G Modules

Model No.	DL-297LD / DL-297LDA / DL-297LDA-S	DL-297LPA	DL-Si24R1-A	DL-Si24R1-PA
Picture				
Interface	SPI	SPI	SPI	SPI
Chip	XN297L	XN297L	Si24R1	Si24R1
Working Voltage	2.3~3.6V	2.3~3.3V	1.9~3.6V	1.9~3.6V
Max. RX Sensitivity	-91dBm	-103dBm	-83dBm@2MHz	-83dBm@2MHz
Receiving Current	15.5mA	20mA	15mA	23mA
Transmitting Current	16mA mA @TX Power 0dbm	120mA@22dBm	12mA@0dBm	12mA@2Mbps & 0dBm
Sleep Current	2uA	＜2uA	1uA	1uA
Max. Power	13dBm	20dBm	7dBm	21dBm
Dimension	11.5x10mm / 16x11.8mm / 22.8x13.5mm	19.5x11.5mm	18x12mm	30.3x14.5mm
Reference Range	150m	300m	150m	300m

BLE Gateway System Architecture Diagram



Bluetooth 5.3 TI CC2340

Classic Bluetooth Module (BT)
These classic Bluetooth before BT 4.0 was mainly used for multimedia transmission Features: high-power consumption, high-speed, but short communication range

Bluetooth Low Energy (BLE)
Only BT 4.0 or higher version Bluetooth is BLE (Bluetooth Low Energy) Features: Long communication range, low power consumption, and small datatransmission volume

BLE Modules

Low power Bluetooth

Model No.	DL-32-BLE4.2	DL-CC2340-B	DL-P1070-AM	DL-OW3621-B	DL-TL8250-A	DL-TL8250PA-A
Picture						
Chip	BK3432	CC2340	PAN1070	OW3621	TLSR8250	TLSR8250
Version	BLE 4.2	BLE 5.3	BLE 5.3+2.4G	BLE 5.3	BLE 5.0	BLE 5.0
Flash	160kB	512kB	512KB	256kB	512kB	512kB
RAM	20KB	12KB	48KB	24KB	32KB	32KB
Receive Sensitivity	-	-98dBm	-99dBm	-99dBm	-96dBm	-98dBm
Sleep Current	1uA	1uA	5uA	1uA	1uA	2uA
TX Power	-	8dBm	9dBm	-50dBm~12dBm	-	+20dBm
Current TX/RX	-	5.0mA/5.3mA	2.5mA/5.8mA	13mA/7.5mA	5.3mA/4.8mA	16mA/39mA
Reference Range	10m	20m	20m	50m	20m	50m

What is the UART Wireless Module?

- The UART wireless module allows wireless communication through its serial port. Products based on this module need not worry about complex wireless parameters -- they just transmit and receive data over the serial port, significantly lowering development costs and shortening the R&D cycle.

Smart Home

Smart Lock
Sweeper Robot
Smart Curtain
... ...

Smart Building

Smart Lighting
Power Supply Monitoring
Smart Security
... ...

Intelligent Agriculture

Irrigation System Control
Data Acquisition
Humidity Sensor
... ...

Intelligent Security

Electric curtain Control
ATA (anti-theft alarm)
Access Control
... ...

Industrial Control

Engineering Lifting Equipment
Warehousing / Logistics Transmission
Heavy Industry Long-range Metallurgy
... ...

UART Wireless Modules

DL-EFG23-B

DL-RTM300-B

DL-CC1310-B

DL-A6601PA-B

DL-P3028M

DL-P3028MPA

DL-M-BK2461U

Model No.	Working Voltage	Transmitting Current	Receive Current	Max. Receive Sensitivity	Working Frequency	Reference Range	Dimension
DL-EFG23-B	1.7~3.8V	140mA	8mA	-125.8dBm	433/868/915M	3km	17.46*20.16mm
DL-RTM300-B	1.8~3.6V	73mA	9.5mA	-120dBm	433/868/915M	1km	15*13.8mm
DL-CC1310-B	2~3.6V	17mA@433M 10dBm	6.8mA	-124dBm	433/868/915M	800m	18*16.5mm
DL-A6601PA-B	3.4~5.4V	700mA@29dBm	6.6mA	-148dBm	433M/470M	7km	26*20.5mm
DL-P3028M	3.5~5.5V	165mA	24mA	-138dBm	433M/470M	3km	27.2*20.5mm
DL-P3028MPA	3.3V	-	24mA	-138dBm	433M/470M	6km	34.3*20.5mm
DL-M-BK2461U	2.5~3.6V	40mA	20mA	-90dBm	2400~2500MHz	120m	23.3*13.7mm

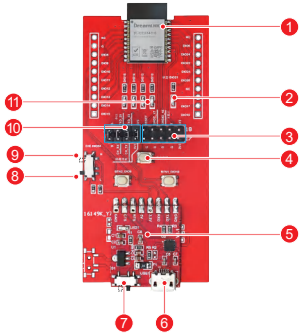
ASK Modules

Model No.	DL-RXC2016BH	DL-RXS531R	DL-TXR25	DL-TX19
Picture				
Working Voltage	2.0~5.5V	3.6~5.5V	1.5~12V	2.2~3.6V
Receiving Current	3.3~4.5mA	4.5~7.0mA	-	-
Working Temperature	-20~70°C	-20~70°C	-20~70°	-20~60°
Working Frequency	315/433MHz	433MHz	315/433MHz	315/433MHz
Receive Sensitivity	-110~-112dBm	-109dBm	-	-
Transmitting Current	-	-	21mA	17.5mA
Max. TX Power	-	-	12dBm@3V	+12dBm
Sleep Current	-	0.9uA	1uA	1uA
Dimension	22x9mm	10x10mm	15x11mm	13.2x13mm
Reference Range	300m	300m	300m	300m

ASK Modules

Model No.	DL-RXC6A/B	DL-RX06C-KO4	DL-RX06C-LO6	M-AF119M/PA
Picture				
Interface	Switching Value (4CH)	Switching Value (4CH)	Switching Value (6CH)	Switching Value (4CH)
Working Frequency	315/433MHz	315/433MHz	315/433MHz	433MHz
Working Voltage	2.8~5.5V	3~5.5V	3~5.5V	1.8~3.6V
Working Current	3.9mA@3.3V/315M 6mA@3.3V/433M	3.9mA@3.3V/315M 6mA@3.3V/433M	3.9mA@3.3V/315M 6mA@3.3V/433M	15mA@10dBm 56mA@22dBm MAX
Working Temperature	-20~75°C	-20~75°C	-20~75°C	-20~75°C
Sleep Current	-	-	-	<1u A
Max. TX Power	-	-	-	Customizable
Max. RX Sensitivity	-20~75°C	-20~75°C	-20~75°C	-
Dimension	28.6x12mm	29x12.8mm	29x12.8mm	20x13/22.2x15mm

Development Kits

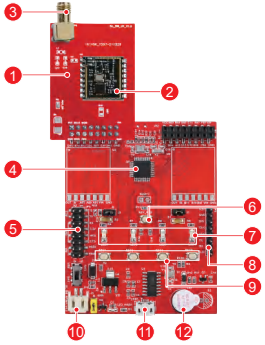


DB-SOC03 Development Kits

The Development Kit includes a USB to TTL signal serial port module, AUX/LED indicator, and mode switching button: AT mode/Low-power mode, used for AT firmware evaluation. At the same time, all GPIO ports of the module are introduced for secondary development, suitable for DreamLNK's SOC serial UART Modules, such as DL-CC1310-B, DL-CC2340-B, DL-A6601-B, DL-A6601PA-B, DL-RTM300-B, etc.

Diagram

1. Wireless Module	3. Download Port	5. USB to TTL Signal	7. Power Switch	9. Mode - AT Mode
2/11. AUX/LED Indicator	4. Reset Button	6. Power (USB)	8. Mode - Low Power	10. Serial Port



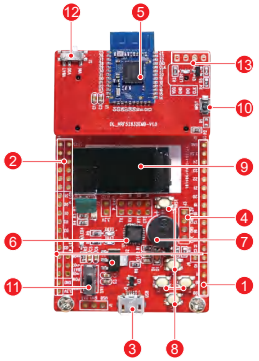
DB-RF001 Development Kits

This Development Kit consists of a Switch Board and a Motherboard. The switch board can adapt to commonly used FSK and LoRa Front-end solutions on the market. The motherboard integrates a Cortex-M0 32bit MCU, and has several commonly used interfaces, such as SPI, UART and I2C. It adopts a l ow-power design and available for battery power supply. Two hardware SPI interfaces are introduced, and the buttons can be used to quickly evaluate the performance of the wireless RF front-end module. Currently, it supports the following Sub-1G modules: SX1278, SX1268, LLCC68, SI4432, SI4438, SI446X, A7139, A7149, PAN3029, PAN3028, PAN3031, CC2500, CC1100, CC1125, CMT2300, CTM2380, 2.4G: NRF24L01+, SI24R1.

Diagram

1. RF switch board	3. SMA connector (for antenna)	5. UART2/DBG	7. LED indicators	9. Keys	11. USB 5V/serial port
2. FSK/LoRa module	4. MCU	6. Reset Key	8. Download port /TTL serial port	10. Battery powered	12. Buzzer

Development Kits

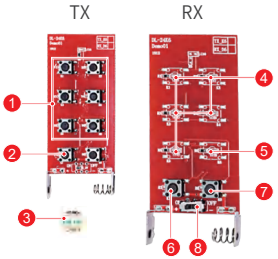


DK-A Development Kits

Bluetooth 5.0 provides a more stable connection, promotes the popularity of Bluetooth technology in IoT devices, and provides a seamless using experience for IoT applications. The Bluetooth project can be directly developed on this DK board, while external buzzer, sensors and buttons can be connected through GPIO. It can also display the control method of Bluetooth networking directly through DK board; for a better understanding of master/slave/multi-link/mesh networking.

Diagram

1&2. All the pins lead out	4. MCU download port	6. CP2102: USB-to-UART chip	8. Keys (including reset key)	10. RF reset	11. Power switch
3. USB 5V/ UART interface	5. Core52832: nRF52832 core module	7. Buzzer	9. TFT LCD screen	11. Power switch (USB/BAT)	12. Download Port



DB-BK24K6 Development Kits

This DB-BK24K6 Development Kits integrated with DreamLNK's DL-BK24K6 TX/RX 2.4G SOC 6-Channel Switching Value RF Modules, which can be used for project evaluation (for corresponding 2.4G RF modules). The 2.4G basic program and remote -control learning code program have been flashed into the module (backside of the Development Kits), which can be used without any programming. TX is for the transmitter module, while RX is for the receiver module.

Diagram

1. 6-Channel TX button	3. Suitable for 23A/12V battery	5. Coding LED indicators	7. Memory/Latch Switching Keys
2. Learning Key	4. 6-Channel LED indicators	6. Coding Key	8. Power Supply

Remote Control

Long Range 4-Key FSK Remote Control

DL-A7149K8-RX

R-F02-K4F

Technical Parameters

- Model: R-F02-K4F
- Frequency: 433MHz
- Encoding Method: Switching Value
- Modulation: FSK
- Transmission Power: 16dBm
- PowerSupply: CR2032 Button Cell Battery
- Communication Range: Approx. 500 meters
- Size: 35x78x10mm
- Weight: 22g

Development-Free 6-Key 2.4Ghz Remote Control

DL-B24K6-RX

R-F02-K62G4

Technical Parameters

- Model: R-F02-K62G4
- Frequency: 2.4GHz~2.5GHz
- Modulation: GFSK
- Transmission Power: 7dB (Conducted)
- Transmission Current: 8mA
- Power Supply: CR2032 Button Cell Battery
- Communication Range: Approx. 80 meters
- Size: 35x78x10mm
- Weight: 23g

R-F01-K6A

433MHz ASK 6-Key Remote Control with EV1527 Learning Code

Stable Signal

Strong Penetration

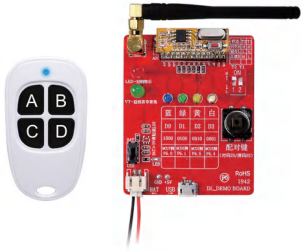
Ultra-Long Range

Comprehensive Functionality

Upgraded Chip

Extended Battery Life

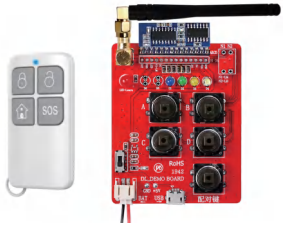
Demo Boards



DL-RXC6A/B Demo Board

Technical Parameters

- Working Frequency 315/433.92MHz
- Modulation ASK
- Receiving Sensitivity -112dBm
- Working Voltage 2.8~5.5V
- Working Current 3.9mA @VDD=3.3V/315M
  6mA @VDD=3.3V/433M
- Protocol EV1527
- Reference Range 300m



DL-RX06C-KO4 Demo Board

Technical Parameters

- Working Frequency 315/433.92MHz
- Modulation ASK
- Receiving Sensitivity -112dBm
- Working Voltage 3~5.5V
- Working Current 4.5mA @VDD=3.3V/315M
  6mA @VDD=3.3V/433M
- Protocol EV1527
- Reference Range 300m

DL-RX06C-LO6 Demo Board

Technical Parameters

- Working Frequency 315/433.92MHz
- Modulation ASK
- Receiving Sensitivity -112dBm
- Working Voltage 3~5.5V
- Working Current 4.5mA @VDD=3.3V/315M
  6mA @VDD=3.3V/433M
- Protocol EV1527
- Reference Range 300m

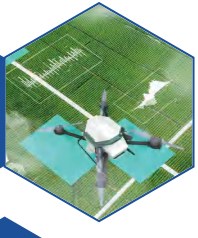
Industrial Remote Control

Medical Control

Smart Home

WIDELY USED FOR VARIOUS APPLICATIONS

Smart Agriculture

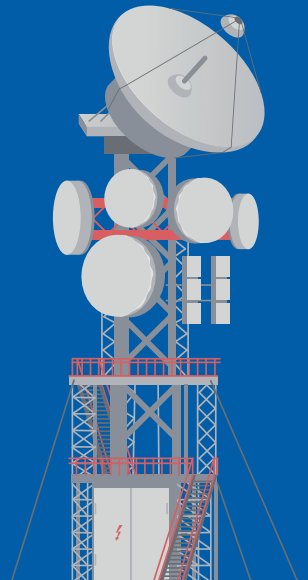


New Energy

Children's Education

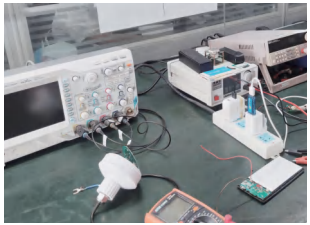
DEVOTE TO BE YOUR RELIABLE

ANTENNA SOLUTION PROVIDER

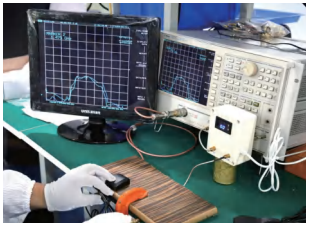


OTA Measurement System

R&D Center



Antenna Debugging



Data Testing

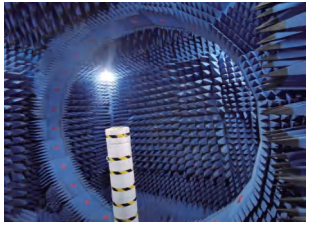
2000m² +
Factory Area

12 Years+
RF Experience

5/15Days
Sample /Mass Production

OTA
Professional Equipment

>10K/Day
Production Capacity



Antenna Anechoic Chamber

Ceramic Sintering Furnace

Stripping Machine

Assembly Line

Product Outline

- Rubber rod antenna is a common external antenna that can be fixed on the product shield via SMA connectors. It is easy to install, with high gain, strong signal, wide frequency band, stable performance, good wall penetration, and can achieve long-distance signal transmission and receiving effects.
- Frequency range: 2.4G/3G/4G LTE/5G/315/433/470/868/915MHz/GSM/GPS/ WCDMA/2.4G+5.8G dual band, etc.

- Can be applied to radio equipment such as network communication devices, wireless monitoring devices, smart home devices, industrial IoT devices, television broadcasting, satellite communication, etc.

Model No: DL-J001

Frequency	868~915MHz
Gain	5dBi
Dimension	198*13mm
Connector	SMA-J
Impedance	50 Ω

Model No: DL-J002

Frequency	433MHz
Gain	5dBi
Dimension	195*13mm
Connector	SMA-J
Impedance	50 Ω

Model No: DL-J004

Frequency	2.4/5G
Gain	5dBi
Dimension	196*13mm
Connector	SMA-J
Impedance	50 Ω

Model No: DL-J023-5GB

Frequency	400~6000MHz
Gain	5dBi
Dimension	27.5*9.5mm
Connector	SMA-J
Impedance	50 Ω

Model No: DL-J014-4G

Frequency	4G
Gain	2dBi
Dimension	50*17mm
Connector	SMA-J
Impedance	50 Ω

Model No: DL-J006

Frequency	315/433/470/868 /2.4GHz/GSM
Gain	2dBi
Dimension	79*12mm
Connector	SMA-J
Impedance	50 Ω

Model No: DL-W1/DL-W10

Frequency	2.4G / 4G
Gain	3dBi
Dimension	105*13mm
Connector	SMA-J
Impedance	50 Ω

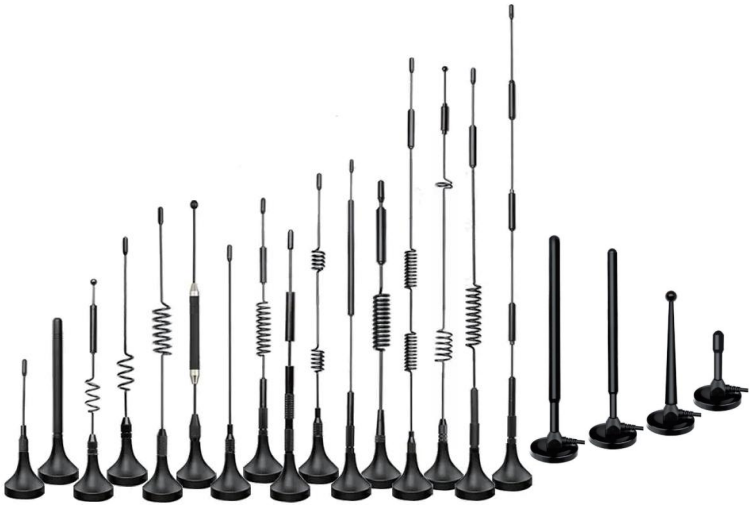
Model No: DL-J011-5G

Frequency	824-960/1710-2680/ 3400-3600/4800-4900MHz
Gain	5dBi
Dimension	171*13mm
Connector	SMA-J
Impedance	50 Ω

Applications

Chuck Antennas

Product Outline



- Chuck Antenna is an external magnet mount suction cap antenna, used for data acquisition and signal transmission. The Chuck Antenna can be installed to a better signal receiving position through an extension cable, which can enhance the sensitivity and stability of the antenna's signal transmission, improve the communication distance and signal quality, even in harsh environments.
- Frequency range: 2.4G/3G/4G LTE/5G/315/433/470/868/915MHz/GSM/GPS/ WCDMA/2.4G+5.8G dual band, etc.

- The use of Chuck Antennas is very extensive. For example, vending machines, car radios, courier cabinets, charging piles, car GPS, vehicle monitoring systems, etc. The specifications of the wire and connector can be flexibly selected.

Model No: DL-X015-NB

Frequency	880-960/ 1710-1880 MHz
Gain	1dBi
Impedance	50 Ω
VSWR	<1.5
Temperature	-40~85°C
Dimension	90x29.8mm

Model No: DL-W8

Frequency	433MHz
Gain	3dBi
Impedance	50 Ω
VSWR	<1.5
Temperature	-40~85°C
Dimension	148x29.8mm

Model No: DL-X013-470

Frequency	470MHz
Gain	5dBi
Impedance	50 Ω
VSWR	<1.5
Temperature	-40~85°C
Dimension	158x29.8mm

Model No: DL-X014-4G

Frequency	4G
Gain	5dBi
Impedance	50 Ω
VSWR	<1.5
Temperature	-40~85°C
Dimension	319x29.8mm

Model No: DL-W11

Frequency	2.4~2.5GHz
Gain	5dBi
Impedance	50 Ω
VSWR	<1.5
Temperature	-40~85°C
Dimension	319x29.8mm

Model No: DL-X020-GSM

Frequenacy	824-960/ 1710-2170MHz
Gain	3dBi
Impedance	50 Ω
VSWR	<1.5
Temperature	-40~85°C
Dimension	99x44mm

Applications

Cabinet Antennas

Product Outline

- Cabinet antennas can be used for various types of cabinets: Courier Cabinets, Dining Cabinet, Distribution Cabinets, Electricity Meter Cabinets, etc. It can be used to receive and transmit wireless signals, enabling communication between the cabinet and other devices.For example, the distribution cabinet can communicate wirelessly with electrical protection devices and monitoring systems, to achieve real-time monitoring and control automatically.

- Frequency range: 2.4G/3G/4G LTE/5G/315/433/470/868/915MHz/GSM/GPS/ WCDMA/2.4G+5.8G dual band, etc.
- Wireless Monitoring, Smart Home, Industrial IoT, Television Broadcasting, Satellite Communication and other transmission equipment.

Model No: DL-803-NB

Frequency	870~960MHz
Gain	4dBi
VSWR	⩽1.5
Dimension	46*15mm
Cable Length	100mm
Connector Type	SMA-J

Model No: DL-803

Frequency	1560-1572.42MHz
Gain	4dBi
Amplifier Gain	28dBi
Dimension	45*16mm
Cable Length	2m
Connector Type	SMA-J

Model No: DL-802

Frequency	820-960/1710 -2700MHz
Gain	4G - 4dBi GPS - 28dBi
Dimension	80*16mm
Cable Length	2m
Connector Type	SMA-J

Model No: DL-801

Frequency	2.4/5.8GHz
Gain	5dBi
Dimension	116*21.5mm
Cable Length	2m
Connector Type	SMA-J
Temperature	-30~80°C

Model No: DL-801-4G-B

Frequency	820-960/1710 -2700MHz
Gain	5dBi
Dimension	116*21.5mm
Cable Length	2m
Connector Type	SMA-J
Temperature	-30~85°C

Model No: DL-804

Frequency	1560-1572.42MHz
Gain	4dBi
Amplifier Gain	28dBi
Dimension	50*39*16.8mm
Cable Length	2m
Connector Type	FAKRA

Applications

Product Outline

- Fiberglass (FRP) Antennas are waterproof omnidirectional antennas with low VSWR and high gain for outdoor use normally. The cover material is Fiber Reinforce Plastic (FRP), which adopts the film pressure technology under high temperature and high pressure. It is IP67 Waterproof, windproof, high temperature resistance, corrosion resistance, and strong sealing; It is easy to install, and suitable for various outdoor environments.
- Frequency range: 2.4G/3G/4G LTE/5G/315/433/470/868/915MHz/GSM/GPS, etc. Due to its high stability and reliability, FRP antenna can be widely used in Outdoor AP, Base Station, WIFI Coverage of Network Bridge, Car Radio, Wireless Data Radio, Wireless Terminal Device, Gateway, Wireless Module, Router, Intercom, Smart Building, Smart City, Remote Sensor Networking, Smart Agriculture etc.

433MHz

Model No: DL-B433W-001

Frequency	433MHz
Gain	5dBi
Impedance	50Ω
VSWR	⩽2
Efficiency	⩾62%
Power	20W
Connector Type	N-J
Dimension	Φ20X600±5mm

2.4G

Model No: DL-B2400W-001

Frequency	2.4-2.5GHz
Gain	3dBi
Impedance	50Ω
VSWR	⩽2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	∅20×250±5mm

860-930MHz

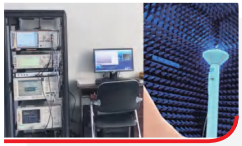
Model No: DL-B930W-001

Frequency	860-930MHz
Gain	5dBi
Impedance	50Ω
VSWR	⩽2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	Φ20×350±5mm

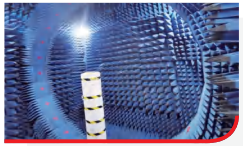
4G

Model No: DL-B4GW-001

Frequency	694-960/ 1710-2700MHz
Gain	2dBi
Impedance	50Ω
VSWR	⩽2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	∅20×200±5mm



• Multi-probe OTA Measurement System

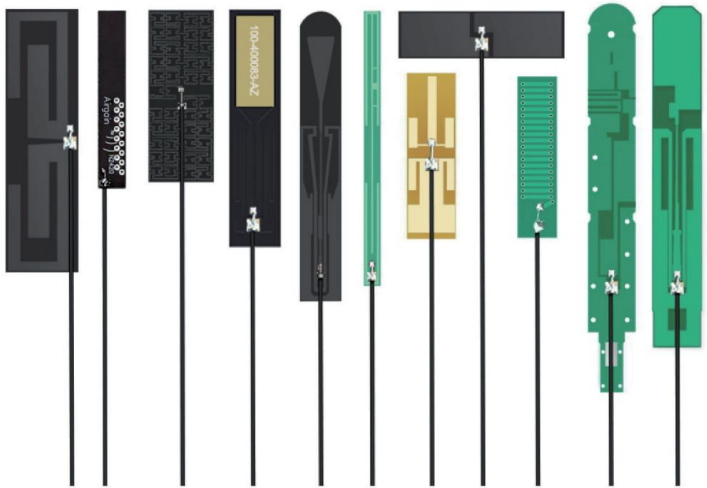


• Anechoic Chamber

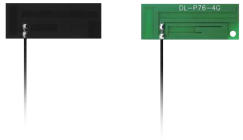
• Ceramic Sintering Furnace

• Peeler

Product Outline

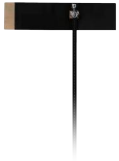


- Built-in FPC and PCB antenna, with 2.4G/4G/5G/GSM/GPS/WCDMA/2.4G+5.8G dual band frequency, suitable for various IoT applications. The copper foil of FPC antenna uses electrolytic copper, which is ultra-thin in thickness and not easy to curl up. The PCB antenna is a built-in rigid FR-4 board antenna, which is more resistant to high temperatures.
  They are widely used in mobile phones, locomotives, Internet, artificial intelligence, smart home, smart city, intelligent agriculture, IoT industry and other fields



Model No: DL-F76/ DL-P76-4G

Frequency	824~960/ 1710~2680MHz
Gain	2.5dBi±0.5
Impedance	50
VSWR	＜1.5
FPC Size	40*15mm
Connector	IPEX-I
Temperature	-30 ~ +70 ℃



Model No: DL-F5/DL-F6

Frequency	2.4~2.5GHz
Gain	2dBi±0.5
Impedance	50
VSWR	＜1.5
FPC Size	34*9.5mm
Connector	IPEX-I/Solder Joint
Temperature	-30 ~ +70 ℃

Model No: DL-F1/DL-F2

Frequency	400~470MHz
Gain	2dBi±0.5
Impedance	50 Ω
VSWR	＜1.5
FPC Size	29*6mm
Connector	IPEX-I/Solder Joint
Temperature	-30 ~ +70 ℃

Model No: DL-F8-5G

Frequency	703-960/1710-2680/ 3300-3600/4700-5000MHz
Gain	3dBi±0.5
Impedance	50
VSWR	＜1.5
FPC Size	98.5*13.4mm
Connector	IPEX-I
Temperature	-30 ~ +70 ℃

Applications

Spring Antennas

Main Products

DL-T1 915MHz

DL-T2 GSM

DL-T3 868MHz

DL-T4 868MHz

DL-T6 470MHz

DL-T10 GSM

DL-T14 433MHz

DL-T15 433MHz

DL-T16 315MHz

DL-T19 433MHz

DL-T021-2.4G

DL-T021-2.4GW

DL-T022-2.4G

DL-T023-2.4G

DL-T023-2.4GW

- Spring coil antenna is a built-in antenna with compact size and simple structure. It has high reliability in various low-power wireless communication applications. The principle of a spring antenna is composed of a folding spring and a matching circuit. The material of our spring antenna is brass, or phosphorous copper, and some will be quipped with a heating shrink tube to prevent oxidation. All are produced from new pure copper materials and can pass the ROHS test. The diameter of the spring and the number of coils are important parameters for controlling the antenna frequency.

- The length of each coil is based on /4 units, It is the wavelength of the operating frequency. By increasing the number of coils in the spring, the frequency of the antenna can be reduced, while reducing the number of coils can increase the frequency. The length of a spring antenna is usually multiple of /4, otherwise it will cause reflection and waveform distortion issues. Therefore, when the spring length is not in the case of multiples of /4, a tuning component must be used to match the impedance.

Wire Antenna

Model No: DL-030-002

Frequency	2400~2500MHz
Gain	2dBi
Impedance	50 Ω
VSWR	⩽1.5
Connector Type	Solder Joint
Dimension	35mm

Wire Antenna

Model No: DL-030-003

Frequency	2400~2500MHz
Gain	2dBi
Impedance	50 Ω
VSWR	⩽1.5
Connector Type	Solder Joint
Dimension	76mm

Wire Antenna

Model No: DL-030-001

Frequency	2400~2500MHz
Gain	2dBi
Impedance	50 Ω
VSWR	⩽1.5
Connector Type	Solder Joint
Dimension	140mm

Copper Tube ANT

Model No: DL-TG24-75

Frequency	2400~2500MHz
Gain	3dBi
Impedance	50 Ω
VSWR	⩽1.5
Connector Type	Solder Joint
Dimension	75mm

Copper Tube ANT

Model No: DL-TG24-112

Frequency	2400~2500MHz
Gain	3dBi
Impedance	50 Ω
VSWR	⩽1.5
Connector Type	Solder Joint
Dimension	112mm

Copper Tube ANT

Model No: DL-TG24-139

Frequency	2400~2500MHz
Gain	3dBi
Impedance	50 Ω
VSWR	⩽1.5
Connector Type	Solder Joint
Dimension	139mm

GPS+BD Ceramic

Model No: DL-812

Frequency	1562/1575MHz
Gain	2dBi
VSWR	⩽1.5
Connector Type	IPEX-I
Dimension	25x25x2mm
Cable	RG1.13- 42mm

GPS+BD Passive

Model No: DL-805-03

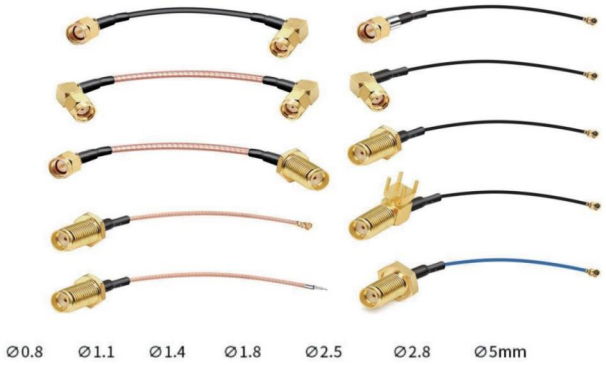
Frequency	1562/1575MHz
Gain	4dBi
VSWR	⩽1.5
Connector Type	IPEX-I
Dimension	25x25x2mm
Cable	RG1.13- 42mm

GPS+BD Active

Model No: DL-805

Frequency	1562/1575MHz
Gain	4dBi
Amplifier Gain	28dBi
Connector Type	IPEX-I
Dimension	25x25x2mm
Cable	RG1.13- 150mm

SMA & MMCX Connectors



- Gain Loss ⩽ 0.1dB/GHz;
- Excellent electrical performance and easy installation;
- Compact structure, Standard size, suitable for various products;
- Stable performance and excellent consistency;
- High grade brass material plated with real gold (plated with 2u/1u gold);
- High quality eco-friendly pure copper;
- 48 hours salt spray testing;
- Good antioxidant properties, corrosion resistance

Vehicle Mounted Antennas

Full range of antenna matching services for buses and cars, including various vehicular antennas, for GPS/BD/GNSS positioning and radio communication.

Smart Power Solutions

Integrated antenna solution for 5G base station power management, railway engineering detection system, wireless electric power inspection, etc.

Aeromodelling Antennas

Antenna matching and customization solutions for drones, aeromodelling, remote -controlled toy, monitoring vehicles, etc

Smart Home Solutions

Customized antennas for smart home, smart wearables, and smart hotel solutions.

Industrial Remote Control and Receiver Solutions

Brief Introduction

This Industrial Remote Control and Receiver Solution were special designed for IIoT (Industrial Internet of Things) applications. We have a set of Remote Control (transmitter) & Receiver PCBA with mature software solution for any potential demand. It can be also ODM base on this system, according to your specified requirements.

With the help of this wireless remote-control system and ready PCBA, you can hold the portable transmitter (with your own cover), walk freely and choose the best location for remote operation, which can greatly improve the safety and reduce accidents such as work-related injuries. The operator can complete multiple tasks independently, which can greatly improve their work efficiency, and save your labor cost.

- Ultra-long Distance
- Strong Anti-interference
- Stable Signals
- FSK Two-way Transmission

Main Features

- Stable communication, sensitive response, strong anti-interference
- 160mW maximum transmit power, greatly improves the communication distance
- 0.5~160mW, 25-levels power automatic adjustment
- Adaptive transmit power according to communication distance, for longer battery life
- Feedback the working status of the receiver through RGB lights
- Low battery alarm
- Ultra-low sleep current
- Antennas are well-matched and optimized for high efficiency
- RGB lights to indicate the signal strength
- Runaway relay reset (open)
- Two-way communication, and timeliness is guaranteed
- Interference detection for improved reliability

01 Transmitter RGB Lights to Indicate the Receiver Status

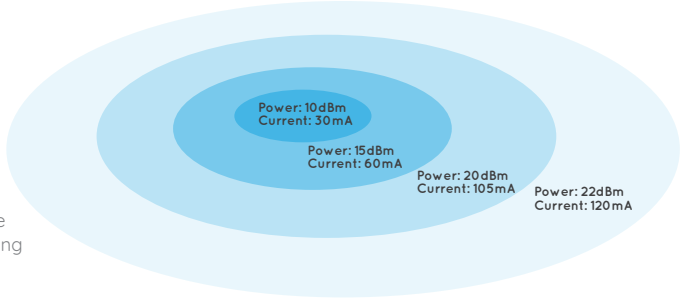
Distinguish signal strength by RGB Lights

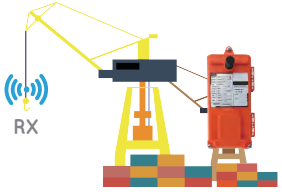
Strong Signal	Normal Signal / Interference Exist	Weak Signal	Communication Failed	Under Protection

Red Light on the Transmitter
No signal received, out of range
or the receiver is working abnormally

02 Adaptive Power

50 meters range, close distance
Power is 7dbm, more energy saving





03 Automatically Detect Signal Strength

In a tin room	Motor at working	In an open area
Weak Signal	Yellow Light on the Transmitter	Strong Signal

04 The Role of the Buzzer

1: Two beeps when power on, 500ms each time
2: One quickly beep means there is packet loss in communication
3: Beep twice means there is interference in communication
4: Beep slowly for 1s means the battery is low

Low Battery Alarm
Low battery buzzer alarm
Battery needs to be replaced

FSK 433MHz LoRa WiFi

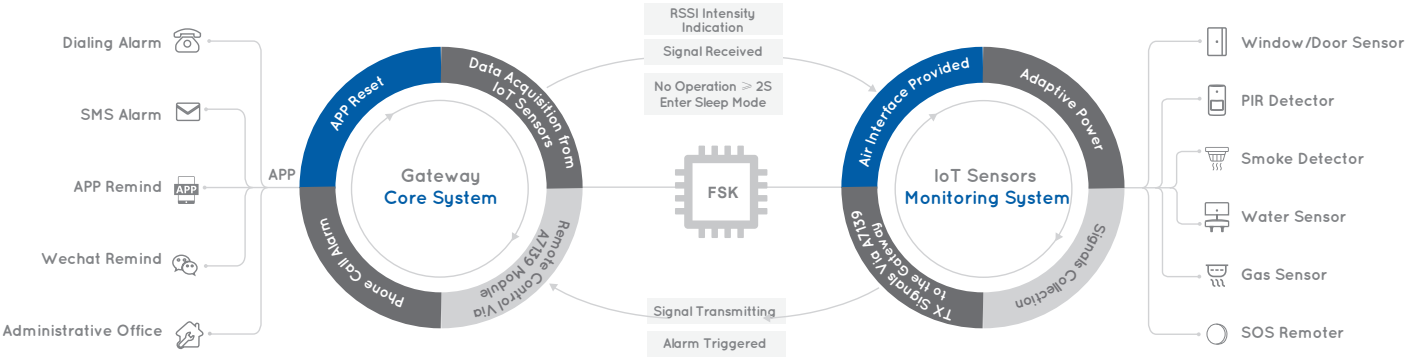
Window/Door Sensor

Gateway

PIR Sensor

Remote Controls

System Principle



Recessed Ceiling Mount

Recommended installation height: 2~4m
Ceiling-mounted, 50mm aperture
>50mm ceiling clearance require

Human Presence Sensor · M1 Series

- Doppler effect algorithm avoids false triggers/interference beyond set range
- Accurately detects motion, micro-motion, subtle movements (sitting, sleeping, etc.)

Dry Contact

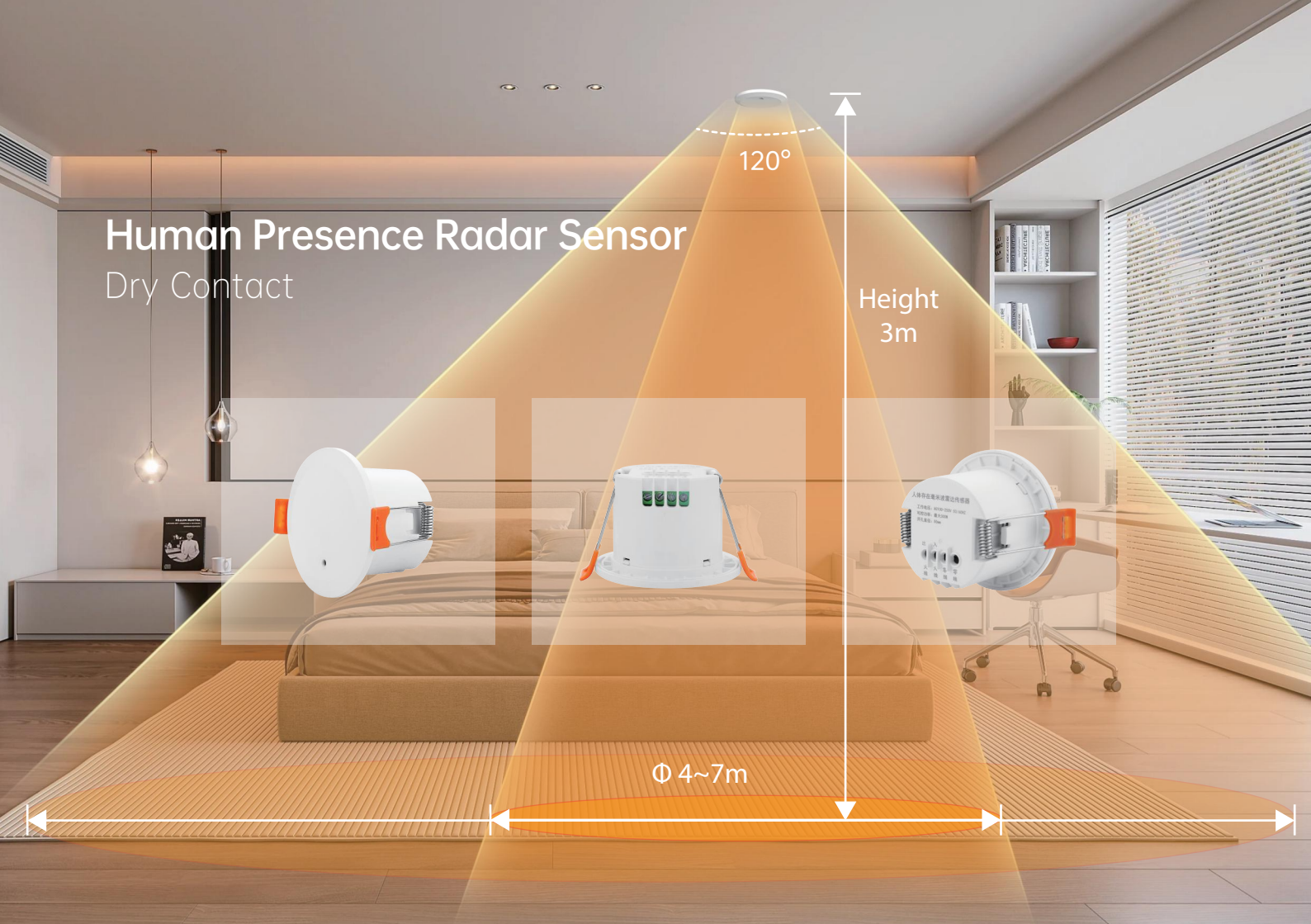

Motion Detection


Micro-Motion Detection


Light Threshold


Insect Resistance


Recessed Ceiling Mount


Human Presence Radar Sensor
Dry Contact
120°
Height
3m
Φ 4~7m

M1-24G-D Series Dry Contact Optional: Low Voltage / High Voltage

- Supports ceiling/wall mounting with small aperture
- Detects motion, micro-motion, and stationary states
- 4-level sensitivity and distance adjustment
- 4-level delay time settings for unoccupied state
- Adjustable NO/NC output signal

Parameters	
Power Supply	Low Voltage: DC12~48V High Voltage: AC100-250V
Adjustment Method	DIP Switch
Activation Illuminance	<10Lux (DIP Selectable)
Detection Range	4m/5m/6m/7m (Optional)
Delay Time	30s/1Min/2Min/3Min (Optional)

M1-24G-T Series Tuya WiFi Optional: Low Voltage / High Voltage

- Reports human presence status
- Supports motion/micro-motion detection and sensitivity adjustment
- Configurable delay time for unoccupied state
- Supports Tuya smart linkage control
- Matte ABS shell, explosion-proof and moisture-resistant

Parameters	
Power Supply	Low Voltage: DC12~48V High Voltage: AC100-250V
Illuminance	0~3000Lux
Installation	Ceiling-mounted, ϕ50mm aperture
Communication	WiFi wireless communication
Adjustment Method	Configured via Tuya App

M1-24G-Z Series Tuya Zigbee Optional: Low Voltage / High Voltage

- Reports human presence status
- Supports motion/micro-motion detection and sensitivity adjustment
- Configurable delay time for unoccupied state
- Supports Tuya smart linkage control
- Matte ABS shell, explosion-proof and moisture-resistant

Parameters	
Power Supply	Low Voltage: DC12~48V High Voltage: AC100-250V
Illuminance	0~3000Lux
Installation	Ceiling-mounted, 50mm aperture
Communication	Zigbee wireless communication
Adjustment Method	Configured via Tuya App

M1-24G-DW DIP Switch Low-Voltage

- Supports ceiling/wall mounting with small aperture
- Detects motion, micro-motion, and stationary states
- 4-level sensitivity and distance adjustment
- 4-level delay time settings for unoccupied state
- Widely used for hotel RCU hosts, cardless solution

Parameters	
Power Supply	DC12~48V
Adjustment Method	DIP Switch
Activation Illuminance	<10Lux (DIP Selectable)
Detection Range	4m/5m/6m/7m (Optional)
Delay Time	30s/1Min/2Min/3Min (Optional)

M1-24G-TW TuYa WiFi Low-Voltage

- Reports human presence status
- Supports motion/micro-motion detection and sensitivity adjustment
- Configurable delay time for unoccupied state
- Supports Tuya smart linkage control
- Matte ABS shell, explosion-proof and moisture-resistant

Parameters	
Power Supply	DC12~48V
Illuminance	0~3000Lux
Installation	Ceiling-mounted, ϕ 50mm aperture
Communication	WiFi wireless communication
Adjustment Method	Configured via Tuya App

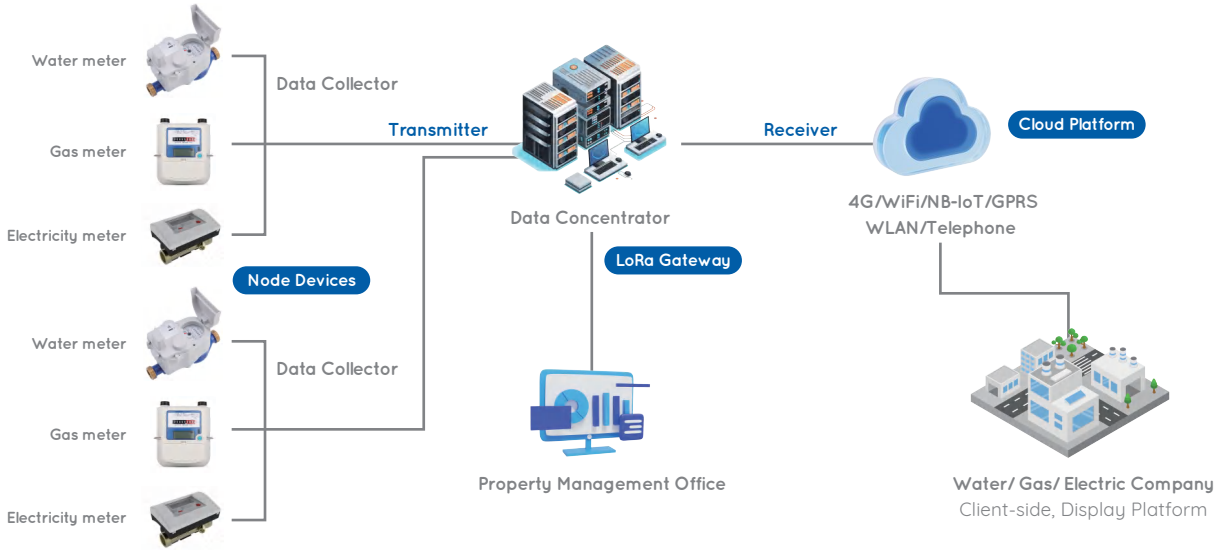
M1-24G-ZW TuYa Zigbee Low-Voltage

- Reports human presence status
- Supports motion/micro-motion detection and sensitivity adjustment
- Configurable delay time for unoccupied state
- Supports Tuya smart linkage control
- Matte ABS shell, explosion-proof and moisture-resistant

Parameters	
Power Supply	DC12~48V
Illuminance	0~3000Lux
Installation	Ceiling-mounted, ϕ 50mm aperture
Communication	WiFi wireless communication
Adjustment Method	Configured via Tuya App

Automatic Meter Reading (AMR) LoRa Application for Water Meter / Electricity Meter / Gas Meter

Schematic Diagram of AMR System



Characteristics of LoRa AMR System

LoRa communication technology has advantages such as long range, low power consumption, and strong anti-interference ability, which can achieve remote management and intelligent control of the Water/Gas/Electricity Meters. Compare to traditional meters, LoRa meter has the following significant advantages:

Remote Monitoring and Management

LoRa meters can achieve remote monitoring and management through LoRa wireless communication technology.

Intelligent Data Analysis

The data collection of LoRa meters has the characteristics of high precision and stability, which can provide detailed and accurate data.

High Security

AES encryption algorithm is adopted to encrypt the data can effectively prevent eavesdroppers from obtaining sensitive information.

Powerful Anti-interference Ability

It has strong anti-interference ability, which will not be easily affected by other wireless signals, ensures the accuracy and stability of data collection.

Low Power Design

The low-power design of LoRa meter will greatly extend its battery life, and reduce maintenance costs caused by battery replacement.

Low Maintenance Cost

With OTA (Over the Air) upgrade technology, remote maintenance and software updates can be achieved, reducing maintenance costs.

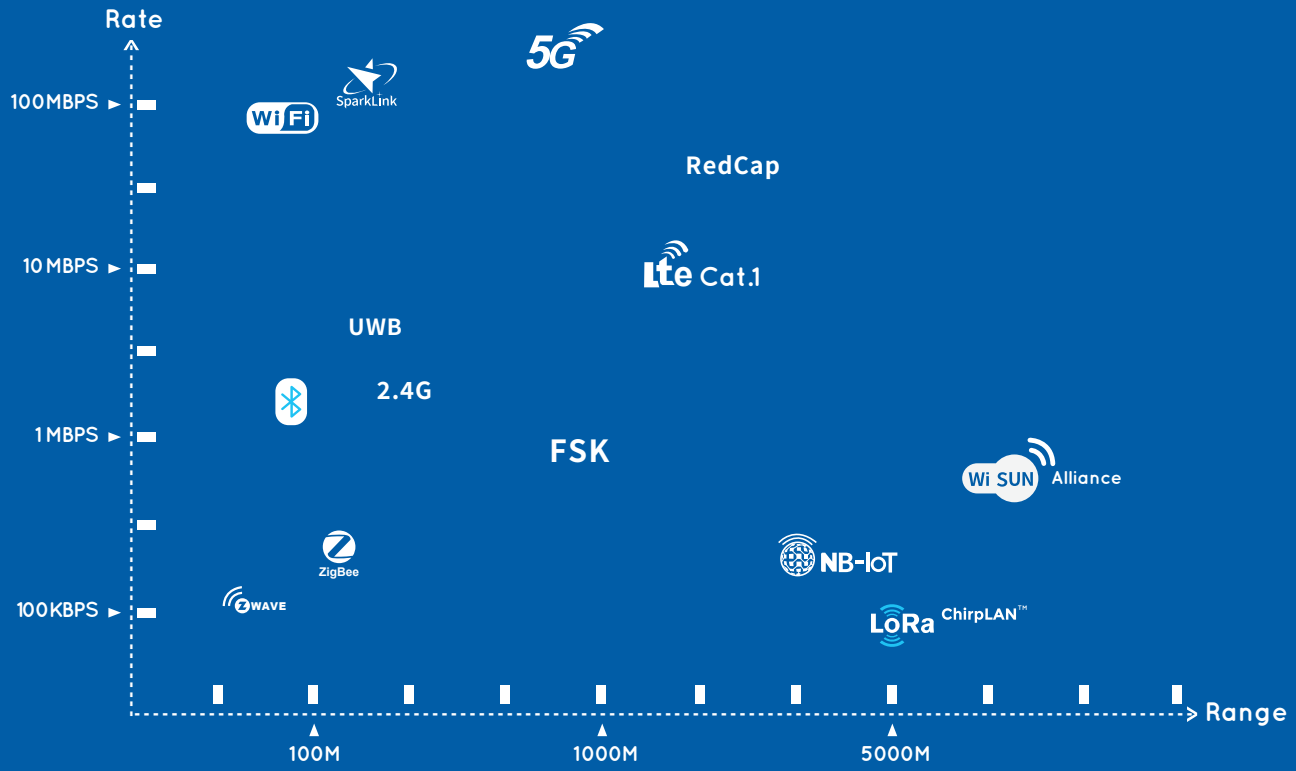
Applications

Smart City

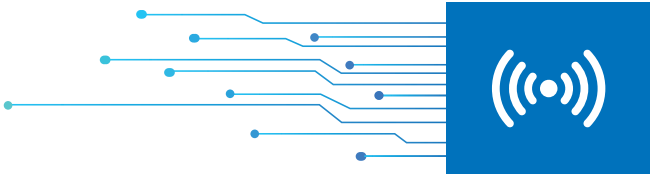
New Energy

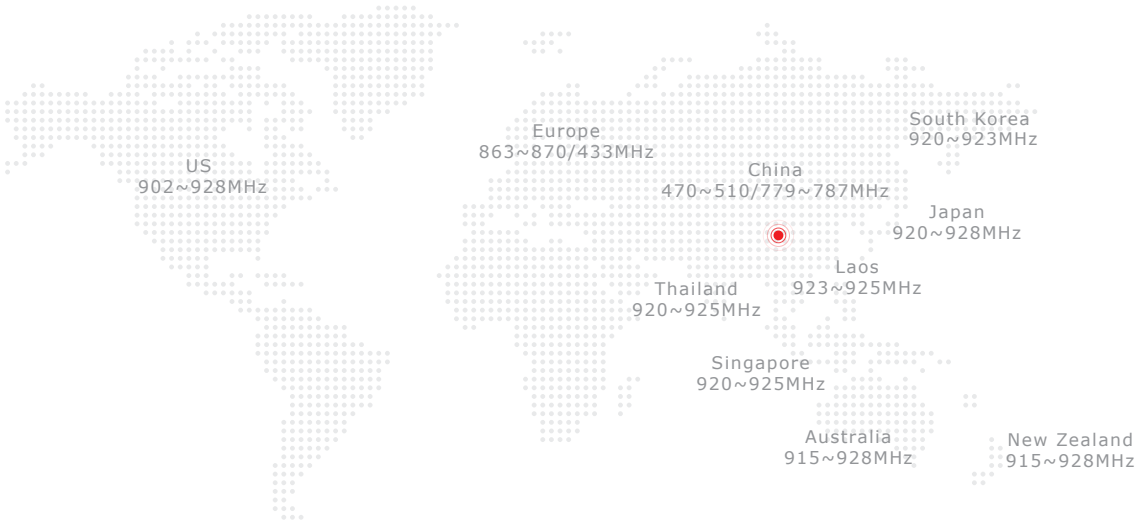
Environmental Monitoring

Industrial Automation



Here above are the common used wireless communication in IoT industry, while IoT architecture consists of the Perception Layer, Transport Layer, Processing Layer, and Application Layer. Our Wireless Modules and Antennas are mainly used in the Transport Layer of IoT applications, such as Smart Home, Smart City, Smart Robots, Smart Healthcare, AMR System, Energy Management, Industrial Control, Smart Traffic, Smart Wearable, Logistics Tracking and Positioning, Photovoltaic Inverters, and other IoT solutions. Welcome to inquire!





DreamLNK®

Shenzhen DreamLNK Technology Co., Ltd

Room 601-603, Unit C, Zone A, Huameiju Business Center, Xinhu Rd., Bao'an District, Shenzhen, China

Huazhi Innovation Valley, No 7 of Yuhua Street, Tangxia Town, Dongguan, Guangdong, China

86-755-29369047 | 86-755-27844601 | 86-13760215716

sales@dreamlnk.com | www.dreamlnk.com | www. iot-rf. com