



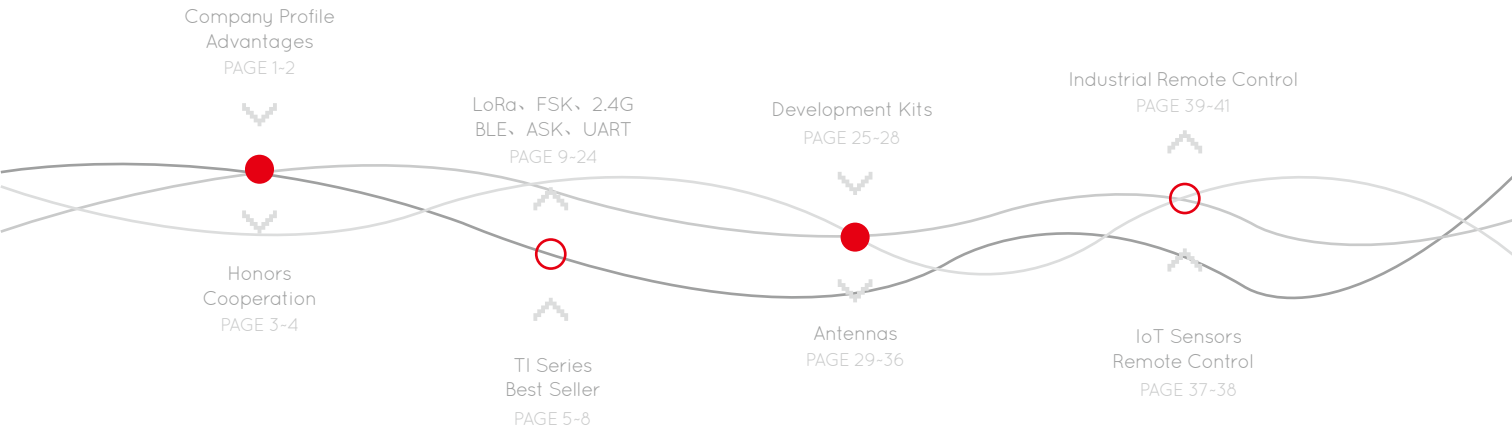
Wireless Expert

RF Module and One-stop IoT Solution Provider

www.iot-rf.com

CONTENTS

Stay Honest, Stay Proactive!



Company Profile

4500 m²

Factory

10 Years +

RF Experience

800 +

Projects

30 +

Patents

Shenzhen DreamLNK Technology Co., Ltd. (referred to as "DreamLNK") is a professional high-tech enterprise specializing in ISM band micro-power wireless communication technology. We have a professional R&D team with abundant working experience; can provide you various RF modules and one-stop IOT solutions!

As a member of the CLAA (China LoRa Application Alliance), and a third-party design office (TI, Silicon Labs, Semtech, HopeRF, Panchip), DreamLNK can provide different kinds of RF modules, include SOC Transparent Transceiver Modules, intelligent IoT modules, high performance industrial data transmission radio module and customized wireless module solutions (e.g.: 2.4G RF modules, UART serial modules, LoRa modules, FSK Transceiver modules, ASK TX/RX Modules, BLE modules, etc.)

After years of development, DreamLNK has already won a good reputation in the RF module field, and has developed a series of mature radio frequency products. Meanwhile, we have invested an antenna laboratory and a modern factory in Dongguan in year 2016. So, we can also provide various high quality antennas!

Nowadays, our complete product line is increasingly used in wireless data acquisition, environmental monitoring, industrial control, medical and health, smart home, children education, etc.

Welcome to inquire, and let's create a Win-Win cooperation together!



OEM/ODM Service Provided

- Full range RF modules Customizable
- Tailor-made internal / external antennas



Production Capacity

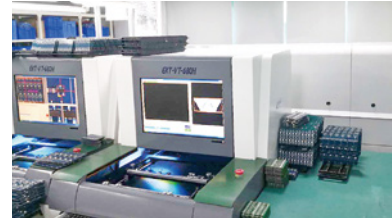
- First-class production & testing equipment
- High-precision measuring equipment



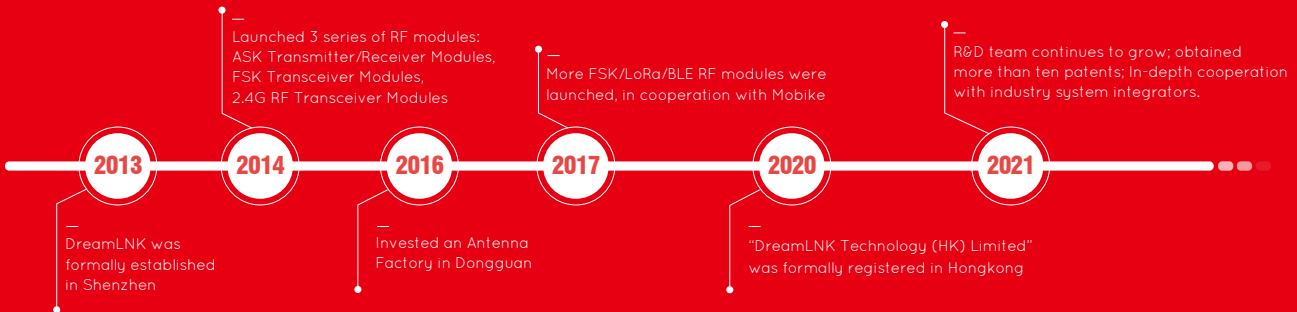
Strict Quality Control

- Materials are directly supplied by factories or authorized agents
- 100% inspection before delivery

Advantages



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. Relying on our professional R&D team, high-precision testing & measuring equipment, advanced antenna laboratory, and a strict quality control system, we can greatly shorten your product development cycle, and always 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 20 software copyrights & 20 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-GHz & 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!



CC2500	CC2591	CC1150
CC2530	CC2592	CC113L
CC2540	CC2640	CC1101
CC2541	CC2650	CC1120
CC2590		CC1125
		CC1310

HOPERF

CMT2300	CMT2119
CMT2380	CMT2219
CMT2110	CMT2150
CMT2210	



SI4432	SI4010
SI4438	SI4455
SI4463	EFR32 Series

LLCC68	SX1276
SX1262	SX1278
SX1268	SX1280



PAN3031	PAN3501
PAN3028	XN297L
PAN3020	



NRF51802	NRF52840
NRF51822	NRF52810
NRF52832	



BK2452	BK3435
BK2461	BK3632
BK3432	BK3633










TI Series



2.4G RF Modules

TI Series

Model No.	DL-24TRGC	DL-24D8A-C	DL-24D	DL-24D8	DL-24PA	DL-24PA-C
Picture						
Chip	CC2500	CC2500	CC2500	CC2500	CC2500	CC2500
Working Voltage	1.8-3.6V	1.8-3.6V	1.8-3.6V	1.8-3.6V	1.8-3.6V	1.8-3.6V
Max. Transmission Power	1dBm	1dBm	1dBm	1dBm	20dBm	20dBm
Max. Receive Sensitivity	-103dBm	-103dBm	-103dBm	-103dBm	-103dBm	-103dBm
Receiving Current	<15mA	<15mA	<17mA	<17mA	<20mA	<20mA
Transmitting Current	<25mA	<25mA	22mA@0dbm	22mA@0dbm	110mA@0dbm	110mA@0dbm
Standby Current	<1uA	<1uA	<1uA	<1uA	<2uA	<2uA
Dimensions	17.1x12.2mm	17.8x12.2mm	15.2x12mm	15.2x11.6mm	19.5x12mm	19.5x12mm
Reference Range	80m	80m	120m	120m	800m	800m

Model No.	DL-CC1125-S	DL-RTC1101	DL-RTC1101-PA	DL-RXC113L	DL-TXC1150
Picture					
Chip	CC1125	CC1101	CC1101+PA	CC113L	CC1150
Working Voltage	2.0-3.6V	1.8-3.6V	2.4-3.6V	1.8-3.6V	1.8-3.6V
Receiving Current	20mA(Low Power) 29mA(High Power)	<16mA	20mA	<16mA	-
Transmitting Current	50mA@14dBm	30mA@10dBm	130mA@20dBm	-	30mA@10dbm
Working Temperature	-40-85°C	-20-75°C	-40-85°C	-20-75°C	-20-75°C
Frequency	169/315/433/868/ 915/920/950MHz	433MHz	433MHz	433MHz	433MHz
Sleep Current	0.5uA (eWOR)	<1uA	<1uA	<1uA	<1uA
Max. Transmission Power	15dBm	10dBm	20dBm	-	10dBm
Max. Receive Sensitivity	-123dBm@1.2kbps	-114dBm	-118dBm	-114dBm	-
Dimensions	17x16.1mm	19x17 / 17x11.7mm	28x21mm	19x17mm	19x15mm
Reference Range	1.5km	500m	1.2km	500m	500m

New Arrival

CC1310 Transparent UART Module

Wake-on-Radio & Clear Channel Assessment
AT Command/ Transparent Transmission



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

Technical Parameter

- | | |
|--|--|
| ● 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: -40-85C | ● Product Size: 18x16.5mm |
| ● Sleep Current: <1uA (eWOR) | ● Reference Range: 800m |



Strong
Anti-jamming



SOC Integrated
RF Module



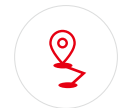
Narrow Band



High
Sensitivity

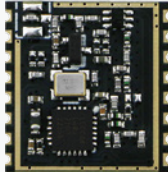


Low Power
Receiving



Long Range
Transmission

Recommended



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

FSK/LoRa Module with SEMTECH LLCC68



Strong Anti-jamming



Ultra-Long Range



Safe&Reliable



High Sensitivity

Technical Parameter





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



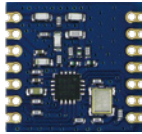
LoRa Modules

Model No.	M-SX1278S2	DL-RTS1278M	DL-SX1278PA
Picture			
Interface	SPI	UART	SPI
Chip	SX1278	SX1278	SX1278+PA
Voltage Range	1.8-3.6V	2.1-3.6V	3.3-5.5V
Typical Voltage	3.3V	3.3V	5V
Working Temperature	-40-85°C	-40-85°C	-40-85°C
Receiving Current	10.8mA	13mA	17mA
Transmitting Current	120mA@20dBm	120mA@20dBm	600mA@29.5dBm
Working Frequency	433/470MHz	433/470MHz	433/470MHz
Sleep Current	<1uA@3.3V	<2.5uA@3.3V	<10uA
Max. Transmission Power	20dBm	20dBm	30dBm
Max. Receive Sensitivity	-133dBm@1.2Kbps(Max. -149dBm)	-133dBm@1.2Kbps(Max. -149dBm)	-133dBm@1.2Kbps (Max. -149dBm)
Dimensions	17.1x16.1mm	32.1x18.3mm	37x25mm
Reference Range	3km	3km	6km



Model No.	DL-RFM95	DL-RFM96	DL-RFM69HC	DL-PAN3031-S
Picture				
Interface	SPI	SPI	SPI	SPI
Chip	SX1276	SX1276	SX1231	PAN3031
Voltage Range	1.8-3.7V	1.8-3.7V	1.8-3.6V	1.8-3.6V
Typical Voltage	3.3V	3.3V	3.3V	3.3V
Working Temperature	-20-70°C	-20-70°C	-40-85°C	-40-85°C
Receiving Current	10.8mA	10.8mA	16mA	13.5mA
Transmitting Current	120mA@20dBm	120mA@20dBm	95mA@17dBm	135mA@433 @DCDC
Working Frequency	868/915MHz	433/470MHz	315/433/868/915MHz	433/868/915MHz
Sleep Current	<1uA	<1uA	<1uA	0.3uA
Max. Transmission Power	-19.5dBm	-19.5dBm	-18-16.5dBm	22dBm
Max. Receive Sensitivity	-133dBm@1.2Kbps (MAX. -149dBm)	-133dBm@1.2Kbps (MAX. -149dBm)	-123dBm	-129dBm
Transmission Rate	1.2-300Kbps @ FSK 0.018-37.5Kbps @ LoRa	1.2-300Kbps @ FSK 0.018-37.5Kbps @ LoRa	1.2-300Kbps @ FSK	0.84 - 16.4 kbps
Dimensions	16x16mm	16x16mm	16x16mm	17.1x16.1mm
Reference Range	3km	3km	1.5km	3km

FSK Modules



DL-RTM300
Range 1.6km

- | | |
|--|-------------------------|
| ● Chip: CMT2300 | ● Sleep Current: <1.5uA |
| ● Working Voltage: 1.8-3.6V | ● Max. TX Power: 20dBm |
| ● Temperature: -20-70 °C | ● Max. RX: -120dBm |
| ● Frequency: 433/868/915MHz | ● Dimensions: 16x16mm |
| ● Receiving Current: 7-10mA @ 433MHz; 7.5-10.5mA @ 868MHz; 7.5-10.5mA @ 915MHz | |
| ● Transmitting Current: 75-95mA @ 433MHz; 80-90mA @ 868MHz; 85-95mA @ 915MHz | |

- ◆ Supports (G)FSK, 2-FSK, OOK, and other modulations
- ◆ Adopts industrial grade components
- ◆ Strong anti-interference ability
- ◆ Wide range working frequency bands
- ◆ Longer transmission distance
- ◆ High receiving sensitivity

Applications



Smart Home

- Smart Door 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
- ...

Model No.	DL-RTS4438	DL-RTS4432	DL-RTS4463	DL-RTS4463PA
Picture				
Chip	SI4438	SI4432	SI4463	SI4463+PA
Working Voltage	1.8-3.6V	1.8-3.6V	1.8-3.6V	1.8-3.6V
Receiving Current	<14mA	<20mA	<13mA	<15mA
Transmitting Current	75mA@20dbm	85mA@20dbm	85mA@20dbm	-
Working Temperature	-40-85°C	-40-85°C	-40-85°C	-40-85°C
Working Frequency	433MHz	433MHz	433MHz	433MHz
Sleep Current	<1uA	<1uA	<1uA	<1uA
Max. Transmission Power	20dBm	20dBm	20dBm	27dBm
Max. Receive Sensitivity	-121dBm	-121dBm	-124dBm	-124dBm
Dimensions	15x12.5mm	16x16mm	16.15x12.5mm	21.9x16.5mm
Reference Range	1.5km	1.2km	1.6km	3km

Model No.	DL-CC1125-S	DL-RTC1101	DL-RTC1101-PA	DL-RXC113L	DL-TXC1150
Picture					
Chip	CC1125	CC1101	CC1101+PA	CC113L	CC1150
Working Voltage	2.0-3.6V	1.8-3.6V	2.4-3.6V	1.8-3.6V	1.8-3.6V
Receiving Current	20mA(Low Power) 29mA(High Power)	<16mA	20mA	<16mA	-
Transmitting Current	50mA@14dBm	30mA@10dBm	130mA@20dBm	-	30mA@10dBm
Working Temperature	-40-85°C	-20-75°C	-40-85°C	-20-75°C	-20-75°C
Frequency	169/315/433/868/ 915/920/950MHz	433MHz	433MHz	433MHz	433MHz
Sleep Current	0.5uA (eWOR)	<1uA	<1uA	<1uA	<1uA
Max. Transmission Power	15dBm	10dBm	20dBm	-	10dBm
Max. Receive Sensitivity	-123dBm@1.2kbps	-114dBm	-118dBm	-114dBm	-
Dimensions	17x16.1mm	19x17 / 17x11.7mm	28x21mm	19x17mm	19x15mm
Reference Range	1.5km	500m	1.2km	500m	500m

Model No.	DL-RTM300H	DL-RXC2219A	DL-TXC2119A	DL-RTA7139	DL-RTA5043
Picture					
Chip	CMT2300	CMT2219	CMT2119	AMICCOM A7139	AXSEM AX5043
Working Voltage	1.8-3.6V	1.8-3.6V	1.8-3.6V	1.9-3.6V	1.8-3.6V
Receiving Current	7-10mA @ 433MHz 7.5-10.5mA @ 868MHz 7.5-10.5mA @ 915MHz	40mA@13dBm	-	<4mA	RX 9.5mA@868MHz RX 6.5mA@169MHz
Transmitting Current	75-95mA @ 433MHz 80-90mA @ 868MHz 85-95mA @ 915MHz	-	40mA@13dBm	31mA@12.5dBm 82mA@20dBm	55mA@50mW
Working Temperature	-40-85°C	-40-85°C	-40-85°C	-40-85°C	-40-85°C
Frequency	433/868/915MHz	433/868MHz	433/868MHz	433MHz	433MHz
Sleep Current	<1.5uA	<0.2uA	<0.2uA	<0.3uA	<1uA
Max. Transmission Power	20dBm	13dBm	13dBm	20dBm	18dBm
Max. Receive Sensitivity	-120dBm	-	-	-119dBm@2Kbps	-126dBm@1.2Kbps
Dimensions	16x16mm	15x12.5mm	15x12mm	16x12.5mm	19.8x16mm
Reference Range	1.6km	600m	600m	1.2km	600m

2.4G Modules







2.4G RF Modules






TI Series

SPI Interface, More Applications





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



Model No.	DL-24TRGC	DL-24D8A-C	DL-24D	DL-24D8	DL-24PA	DL-24PA-C
Picture						
Interface	SPI	SPI	SPI	SPI	SPI	SPI
Open Space	80m	80m	120m	120m	800m	800m
Antenna Type	PCB On-board	PCB On-board	External Antenna	External Antenna	External Antenna	External Antenna

Model No.	DL-BK24K6-TX	DL-BK24K6-RX	DL-BK24K6-52TX	M-BK2461U	DL-24BK25
Picture					
Interface	IO	IO	IO	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. Transmission Power	12dBm	-	5dBm	0-11dBm	4dBm
Max. Receive 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
Dimensions	23.3x13.9mm	23.3x13.9mm	23.3x13.9mm	23.3x13.7mm	18x12.2mm
Reference Range	100m	100m	100m	100m	100m

Model No.	DL-24N	DL-24N-S	DL-24N-I	DL-24NPA
Picture				
Chip	NRF24L01	NRF24L01	NRF24L01	NRF24L01
Interface	IO	IO	IO	SPI
Working Voltage	1.9-3.6V	1.9-3.6V	1.9-3.6V	1.8-3.6V
Max. Transmission Power	-6dBm	-6dBm	-6dBm	20dBm
Max. Receive 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
Dimensions	19x12mm	19x12mm	19x12mm	19.25x13mm
Reference Range	100m	100m	120m	650m

Model No.	DL-297LD / DL-297LDA / DL-297LDA-S	DL-297LPA	DL-Si24R1-A	DL-24LT
Picture				
Chip	XN297L	XN297L	Si24R1	LT8900
Working Voltage	1.9-3.6V	2.3-3.3V	1.9-3.6V	1.8-3.6V
Max. Receive Sensitivity	-88dBm	-103dBm	-83dBm@2MHz	-87dBm
Receiving Current	<23mA	20mA	15mA	<17mA
Transmitting Current	16mA	120mA@22dBm	12mA@0dBm	18mA@2dbm
Sleep Current	2uA	<2uA	1uA	1uA
Max. Power	13dBm	20dBm	7dBm	6dBm
Dimensions	11.5x10mm / 16x11.8mm / 22.8x13.5mm	19.5x11.5mm	18x12mm	15.2x12mm
Reference Range	300m	650m	150m	100m

UART Wireless Serial Modules

What is the UART Wireless Module?



- The UART Wireless module can be used for wireless communication through its serial port. Product designed base on the UART module, is no need to care about its complex wireless parameters, but just easily transmit and receive the data through its serial port, which can be greatly reduce the development cost, and shorten the R&D cycle.



Smart Home

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



Smart Building

Lighting monitoring
Power supply monitoring
Integrated security
... ..



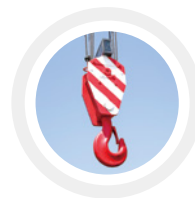
Intelligent Agriculture

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 Serial Modules Selection Table



DL-CC1310-B



DL-RTS1278M



DL-RTS4463M



DL-RTA5043M



DL-TRPA-100mW









DL-TRPA-500mW

Model No.	Working Voltage	Transmitting Current	Max. Receive Sensitivity	Working Frequency	Reference Range	Dimensions
DL-CC1310-B	1.8-3.8V	17mA@10dBm 27mA@14dBm	-124dBm	433/868/915M	800m	18*16.5mm
DL-RTS1278M	2.1-3.6V	100mA@100mW	-132dBm	433M	3km	32.1*18.3mm
DL-RTS4463M	2.1-3.6V	15mA	-121dBm	433M	3km	32*18.5mm
DL-RTS5043M	2.1-5.5V	55mA@50mW	-126dBm	433M	3km	33*18mm
DL-TRP-100mW	2.4-3.6V	120mA	-117dBm	433/868/915M	1km	20*16mm
DL-TRPA-500mW	2.4-5.5V	450mA	-117dBm	433/915M	2km	20*16mm

ASK Modules






Transmitter / Receiver Modules

Model No.	DL-RXC2016BH	DL-RXC2015	DL-RXS2016A	DL-RXP4303	DL-TXR25	DL-TX19
Picture						
Working Voltage	2.0-5.5V	2.0-5.5V	3.0-5.5V	2.4-5.5V	1.5-12V	2.2-3.6V
Receiving Current	3.3-4.5mA	4.3-6.5mA	2.5-4.5mA	2.7mA	-	-
Working Temperature	-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°	-20-60°
Working Frequency	315/433MHz	315/433MHz	315/433MHz	315/433MHz	315/433MHz	315/433MHz
Receive Sensitivity	-110~-112dBm	-110~-115dBm	-110~-114dBm	-110dBm	-	-
Transmitting Current	-	-	-	-	21mA	17.5mA
Max. Transmission Power	-	-	-	-	12dBm@3V	+12dBm
Sleep Current	-	<1uA	<1uA	1uA	1uA	1uA
Dimensions	22x9mm	30x12.5mm	30x12.5mm	30x12.2mm	15x11mm	13.2x13mm
Reference Range	300m	300m	300m	300m	300m	300m

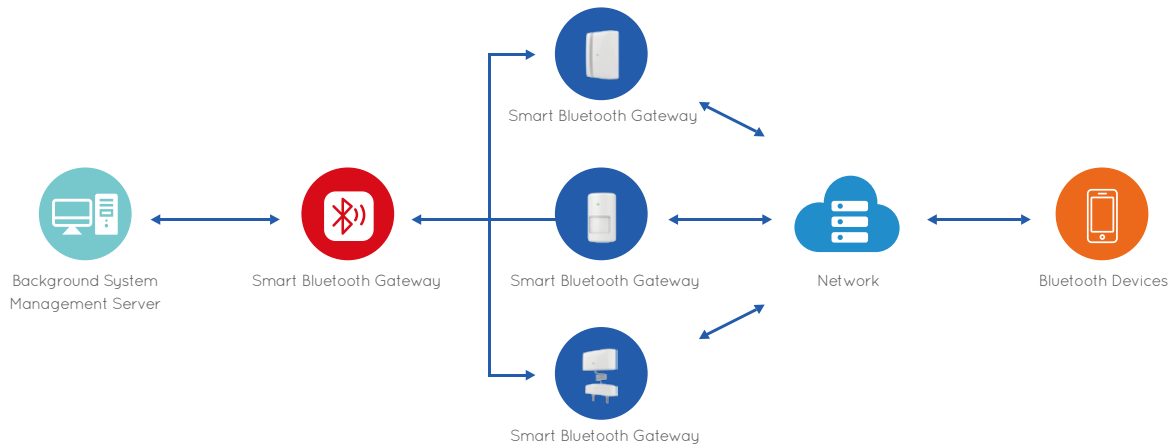


RF Receiver / Transmitter Modules with Encoding

Model No.	DL-RXC6A/B	DL-RX06C-KO4	DL-RX06C-LO6	M-AF119M/PA
Picture				
Interface	SPI	SPI	SPI	SPI
Working Frequency	315/433MHz	315/433MHz	315/433MHz	433MHz
Working Voltage	2.8-5.5V	3.0-5.5V	3.0-5.5V	1.8-3.6V
Typical Voltage	3.3 or 5.0V	5.0V	5.0V	-
Working Current	3.9mA@ 3.3V/315M 6mA@ 3.3V/433M	4.5mA@ 3.3V/315M 6mA@ 3.3V/433M	4.5mA@ 3.3V/315M 6mA@ 3.3V/433M	15mA@ 10dBm 56mA@ 22dBm
Working Temperature	-20-75°C	-20-75°C	-20-75°C	-20-75°C
Sleep Current	-	-	-	<1uA
Max. Transmission Power	-	-	-	Customizable
Max. Receive Sensitivity	-112dBm	-112dBm	-112dBm	-
Dimensions	28.6x12mm	29x12.8mm	29x12.8mm	20x13mm / 22.2x15mm

BLE Modules

BLE Gateway System Architecture Diagram

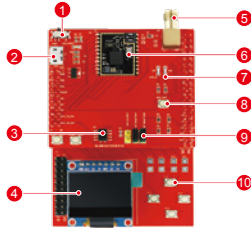




Model No.	DL-nRF52832	DL-nRF52840	DL-nRF52811	DL-CC2541	DL-32-BLE4.2
Picture					
Chip	 NORDIC	 NORDIC	 NORDIC	CC2541	BEKEN
Flash	512kB	1MB	192KB	160kB	160kB
RAM	64KB	256KB	24KB	20KB	20KB
Max. Receive Sensitivity	-96dBm	-96dBm	-95dBm	-94dBm	-
Working Frequency	BLE , 2.4GHz	BLE , 2.4GHz	BLE , 2.4GHz	BLE , 2.4GHz	BLE , 2.4GHz
Transmission Power	-20dBm-4dBm	-20dBm-8dBm	-20dBm-4dBm	0	-
TX Power Consumption	5.5mA	5.5mA	4.6mA	19mA	-
RX Power Consumption	5.5mA	5.5mA	Peak Receiving Current	15mA	-
Reference Range	20m	20m	20m	10m	10m



Development Kits

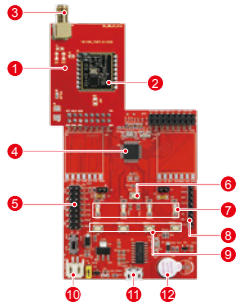


D-SOC001 Development Kit

It was designed with switch board and motherboard, which has buzzer, OLED and other hardware. This Development Kit elicits a switch board via the pin leader, which can adapt the SOC Module with wireless function such as TI's CC1310. It is compatible with TI/SOK pin definition, which can help you making the evaluating and testing. Its OLED makes the debugging and testing more convenience, especially for the complex wireless network application.

Diagram

1. Power Switch (USB/BAT)	3. USB-TTL chip	5. SMA connector (for antenna)	7. LED indicators	9. Test Jump
2. USB 5V/Serial	4. OLED Display	6. RF SOC module	8. Reset Key	10. Keys



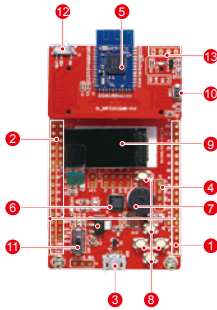
DB-RF001 Development Kit

It was designed with switch board and motherboard, with two hardware SPI interfaces. The switch board adapts to the common FSK Front-end Modules and LoRa RF Modules. The motherboard integrates a Cortex-M0 32bit MCU, and has several common interfaces such as SPI, UART and I2C. It was low power consumption designed and can support battery power supply. The keys can be used to quickly evaluate the performance of the wireless RF front-end module. At present, it supports Sub-1G: SX1278, SX1268, LLCC68, Si4432, Si4438, Si446X; CC2500, CC1100, CC1125, PAN3031; 2.4G: 24L01+, Si24R1, XN297.

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

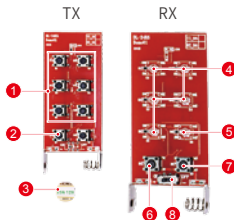


DK-A Development Kit

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



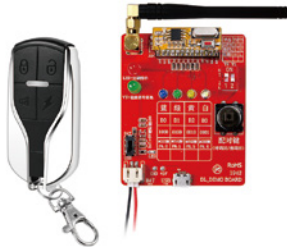
DB-BK24K6 Development Kits

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 the transmitter module, while RX is 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

Development Kits



DL-RXC6A/B Demo Board

Technical Parameter

- Working Frequency 315/433.92MHz (Customizable)
- Modulation ASK
- Receiving Sensitivity -112dBm
- Working Voltage 2.8-5.5V
- Working Current 3.9mA @ VDD=3.3V/315M
- Encoding and Decoding Mode 6mA @ VDD=3.3V/433M 1527
- Reference Range 300m



DL-RX06C-KO4 Demo Board

Technical Parameter

- Working Frequency 315/433.92MHz (Customizable)
- Modulation ASK
- Receiving Sensitivity -112dBm
- Working Voltage 3-5.5V
- Working Current 4.5mA @ VDD=3.3V/315M
- Encoding and Decoding Mode 6mA @ VDD=3.3V/433M 1527
- Reference Range 300m



DL-RX06C-LO6 Demo Board

Technical Parameter

- Working Frequency 315/433.92MHz (Customizable)
- Modulation ASK
- Receiving Sensitivity -112dBm
- Working Voltage 3-5.5V
- Working Current 4.5mA @ VDD=3.3V/315M
- Encoding and Decoding Mode 6mA @ VDD=3.3V/433M 1527
- Reference Range 300m



WIDELY USED FOR VARIOUS APPLICATIONS





Your One-stop Antenna Solution Provider

● First-class Material

● High Gain

● Broad Bandwidth

● High Efficiency

FPC Antennas

Built-in Antennas



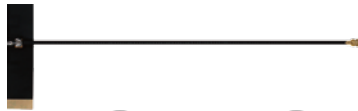
Stable Coverage, Low Delay



High Gain, Strong Signal



Strong Adhesive, Easy to Install



Model No: DL-F5
Connector Type: IPEX



Model No: DL-F6
Soldered Joint

DL-F5/F6 is an FPC built-in antenna working at 2.4GHz frequency band, suitable for 2.4Ghz devices, such as wireless network card/router/mobile phone, etc. Electrolytic copper is adopted on the FPC antenna, which is thin and not easy to warping. The backside sticker has strong adhesion and high temperature resistance. It is widely used in Internet, AI, smart home, smart city, smart agriculture, IoT industry, security, transportation and other fields.

Frequency	2.4-2.5GHz	FPC Size	34x9.5mm
Gain	2dBi ± 0.5	Cable Length	130 ± 3mm
Impedance	50 Ω	Connector Type	IPEX-I/Soldered Joint
VSWR	≦1.3	Working Temperature	-30 - +70 C



4G FPC
DL-F76-4G

Frequency	824-960/1710-2680MHz
Gain	2.5dBi ± 0.5
Impedance	50 Ω
VSWR	≦2
FPC Size	40*15mm
Connector Type	IPEX-I
Soldered Joint	-30 - +70 C
Temperature	100 ± 3mm



NB FPC
DL-F76-NB

Frequency	824-960/1710-1990MHz
Gain	2.5dBi ± 0.5
Impedance	50 Ω
VSWR	≦2
FPC Size	40*15mm
Connector Type	IPEX-I
Soldered Joint	-30 - +70 C
Temperature	43 ± 3mm



5G FPC
DL-F8-5G

Frequency	703-960/1710-2680/ 3300-3600/4700-5000MHz
Gain	3dBi ± 0.5
Impedance	50 Ω
VSWR	≦2
FPC Size	98.5*13.4mm
Connector Type	IPEX-I
Soldered Joint	-30 - +70 C
Temperature	150 ± 3mm



433M FPC
DL-F1/DL-F2

Frequency	400-470MHz
Gain	2dBi ± 0.5
Impedance	50 Ω
VSWR	≦1.2
FPC Size	29*6mm
Connector Type	IPEX-I/Soldered Joint
Soldered Joint	-30 - +70 C
Temperature	130 ± 3mm



2.4G FPC
DL-F3

Frequency	2400-2500MHz
Gain	2dBi ± 0.5
Impedance	50 Ω
VSWR	≦1.4
FPC Size	42*8mm
Connector Type	IPEX-I
Soldered Joint	-30 - +70 C
Temperature	42 ± 3mm



GPS FPC
DL-F11-GPS

Frequency	1575MHz
Gain	3dBi ± 0.5
Impedance	50 Ω
VSWR	≦1.3
FPC Size	37*26mm
Connector Type	IPEX-I
Soldered Joint	-30 - +70 C
Temperature	50 ± 3mm

Rod Antennas

External Antennas



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-J003

Frequency 700-960/
1710-2690MHz
Gain 5dBi
Dimension 196*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-J005

Frequency 3G
Gain 3dBi
Dimension 155*13mm
Connector SMA-J
Impedance -40-85°C



Model No: DL-J006

Frequency 315/433/470/868/
/2.4GHz/GSM
Gain 3dBi
Dimension 79*12mm
Connector SMA-J
Impedance 50 Ω



Model No: DL-J007-24

Frequency 2.4GHz
Gain 2dBi
Dimension 27.5*9.5mm
Connector SMA-J
Impedance 50 Ω



Model No: DL-J008

Frequency GPS/GSM/CEMA
/2.4GHz/GSM
Gain 2dBi
Dimension 50*10mm
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



Model No: DL-J014-4G

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



Model No: DL-w1

Frequency 4G
Gain 3dBi
Dimension 105*10mm
Connector SMA-J
Impedance 50 Ω



Model No: DL-w2

Frequency 4G
Gain 5dBi
Dimension 194.2*13mm
Connector SMA-J
Impedance 50 Ω



Model No: DL-w3

Frequency 315/390/433MHz
Gain 3dBi
Dimension 109*10mm
Connector SMA-J
Impedance 50 Ω



Model No: DL-w4

Frequency 2.4G
Gain 5dBi
Dimension 170*13mm
Connector RP-SMA-J
Impedance 50 Ω



Model No: DL-w9

Frequency 868MHz
Gain 3dBi
Dimension 155*13mm
Connector RP-SMA-J
Impedance 50 Ω



Model No: DL-w10

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

Chuck Antennas

External Antennas



Model No: DL-W5

Frequency 900-1800MHz
Gain 5dBi
Impedance 50 Ω
VSWR ≤ 1.3
Temperature -40-85°C
Dimension 208x29.8mm



Model No: DL-W6

Frequency 4G
Gain 5dBi
Impedance 50 Ω
VSWR ≤ 2.0
Temperature -40-85°C
Dimension 198x29.8mm



Model No: DL-W7

Frequency 4G
Gain 5dBi
Impedance 50 Ω
VSWR ≤ 1.2
Temperature -40-85°C
Dimension 227x29.8mm



Model No: DL-W8

Frequency 433 MHz
Gain 3dBi
Impedance 50 Ω
VSWR ≤ 2.0
Temperature -40-85°C
Dimension 148x29.8mm



Model No: DL-W11

Frequency 2.4-2.5GHz
Gain 5dBi
Impedance 50 Ω
VSWR ≤ 1.3
Temperature -40-85°C
Dimension 230x29.8mm



Model No: DL-X013-470

Frequency 470MHz
Gain 5dBi
Impedance 50 Ω
VSWR ≤ 2
Temperature -40-85°C
Dimension 158x29.8mm



Model No: DL-X014-4G

Frequency 4G
Gain 5dBi
Impedance 50 Ω
VSWR ≤ 2
Temperature -40-85°C
Dimension 319x29.8mm



Model No: DL-X15-NB

Frequency 880-960 / 1710-1680 MHz
Gain 1dBi
Impedance 50 Ω
VSWR ≤ 3
Temperature -40-85°C
Dimension 90x29.8mm

Connectors



TNC to SMA-J RG174



SMA-K to CRC9 RG174



SMA-K to IPEX 1.37 cable



BNC to SMA-J RG316



BNC to BNC RG316



SMA-K to IPEX 1.13 cable



SMA-J to SMA-J RG178



SMA-K to Soldered Joint RG178



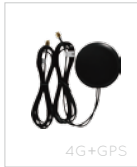
SMA-K to IPEX RG178



SMA-K to SMA-J RG178

Cabinet Antennas

External Antennas



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-803
 Frequency 1560-1572.42MHz
 Gain 4dBi
 Amplifier Gain 28dBi
 Dimension 45*16mm
 Cable Length 2m
 Connector Type SMA-J



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-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-13B
 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

Connectors

Antenna Accessories






Model No: DL-B433W-001

Frequency	433MHz
Gain	7dBi
Impedance	50 Ω
VSWR	≤2
Efficiency	≥62%
Power	20W
Connector Type	N-J
Dimension	Φ25X610 ±5mm


433MHz



Model No: DL-B470W-001

Frequency	470-510MHz
Gain	7dBi
Impedance	50 Ω
VSWR	≤2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	Φ25x546 ±5mm


470MHz



Model No: DL-B930W-001

Frequency	860-930MHz
Gain	7dBi
Impedance	50 Ω
VSWR	≤2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	Φ25x360 ±5mm


860-930MHz



Model No: DL-BGPSW-001

Frequency	1550-1580MHz
Gain	4dBi
Impedance	50 Ω
VSWR	≤2
Efficiency	≥75%
Power	20W
Connector Type	N-J
Dimension	Φ20x167 ±3mm


GPS



Model No: DL-B2400W-001

Frequency	2.4-2.5GHz
Gain	5dBi
Impedance	50 Ω
VSWR	≤2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	Ø20x215 ±5mm

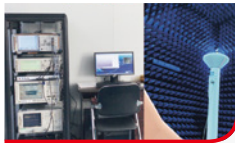
2.4G



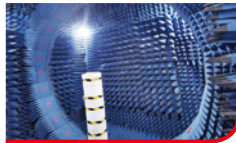
Model No: DL-B4GW-001

Frequency	694-960/ 1710-2700MHz
Gain	5dBi
Impedance	50 Ω
VSWR	≤2
Efficiency	Vertical
Power	20W
Connector Type	N-J
Dimension	Ø20x215 ±5mm

4G



• Multi-probe OTA Measurement System



• Anechoic Chamber



• Ceramic Antenna Oven



• Peeler

Spring Antennas



Model No: DL-T1	
Frequency	915MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	17.5*5.5mm



Model No: DL-T2	
Frequency	824-960/ 1710-1950MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.4
Dimension	32*5mm



Model No: DL-T3	
Frequency	868MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	17*5.5mm



Model No: DL-T4	
Frequency	868MHz
Gain	2.5dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	19.5*5.5mm



Model No: DL-T5	
Frequency	868MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	17.7*5.2mm



Model No: DL-T6	
Frequency	470MHz
Gain	2.15dBi
Impedance	50 Ω
VSWR	≦1.7
Dimension	21*9.6mm



Model No: DL-T7	
Frequency	433MHz
Gain	2.15dBi
Impedance	50 Ω
VSWR	≦1.8
Dimension	38.5*5.5mm



Model No: DL-T9	
Frequency	868MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	23.5*6mm



Model No: DL-T10	
Frequency	824-960/ 1710-1950MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.4
Dimension	23.5*9mm



Model No: DL-T11	
Frequency	433MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.6
Dimension	29*5mm



Model No: DL-T14	
Frequency	433MHz
Gain	2dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	27.9*3mm



Model No: DL-T15	
Frequency	433MHz
Gain	2.5dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	25.1*7.3mm



Model No: DL-T16	
Frequency	315MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.8
Dimension	35.5*5.5mm



Model No: DL-T18	
Frequency	433MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	21.5*7.5mm



Model No: DL-T19	
Frequency	433MHz
Gain	3dBi
Impedance	50 Ω
VSWR	≦1.5
Dimension	39.5*5.5mm

Wire Antenna/Ceramic Antennas

Built-in Antennas



Silver-planted ANT

Model No: DL-030-002

Frequency 2400-2500MHz
Gain 2dBi
Impedance 50 Ω
VSWR ≤1.5
Connector Type Soldered Joint
Dimension 35mm



Silver-planted ANT

Model No: DL-030-003

Frequency 2400-2500MHz
Gain 2dBi
Impedance 50 Ω
VSWR ≤1.5
Connector Type Soldered Joint
Dimension 76mm



Silver-planted ANT

Model No: DL-030-001

Frequency 2400-2500MHz
Gain 2dBi
Impedance 50 Ω
VSWR ≤1.5
Connector Type Soldered Joint
Dimension 140mm



Copper Tube ANT

Model No: DL-TG24-75

Frequency 2400-2500MHz
Gain 3dBi
Impedance 50 Ω
VSWR ≤1.5
Connector Type Soldered Joint
Dimension 75mm



Copper Tube ANT

Model No: DL-TG24-112

Frequency 2400-2500MHz
Gain 3dBi
Impedance 50 Ω
VSWR ≤1.5
Connector Type Soldered Joint
Dimension 112mm



Copper Tube ANT

Model No: DL-TG24-139

Frequency 2400-2500MHz
Gain 3dBi
Impedance 50 Ω
VSWR ≤1.5
Connector Type Soldered Joint
Dimension 139mm



GPS+BD Ceramic

Model No: DL-812

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



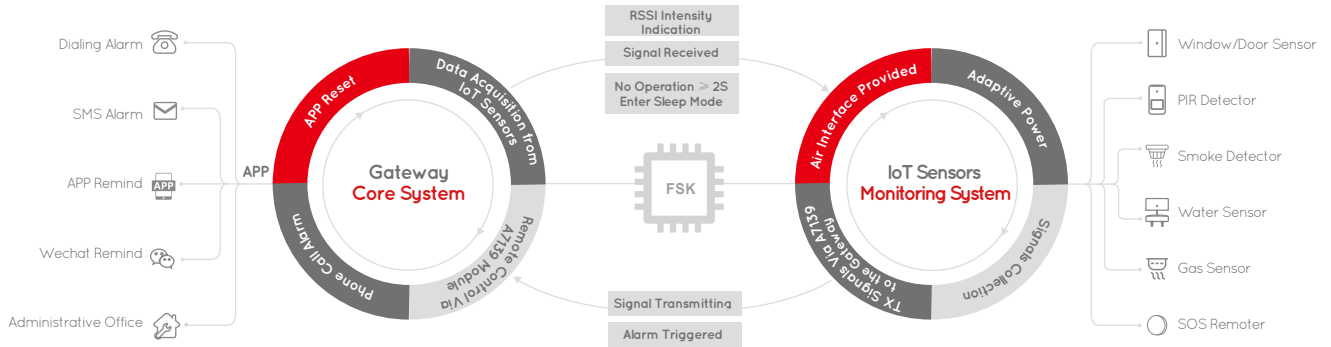
GPS+BD Active

Model No: DL-805

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



➤ System principle





433/868M R-C01-K6A

HOT



EV1527 Code R-A01-DL

HOT



Waterproof R-A02-K4

NEW



Four-button R-A02-DL



One-button SOS01



433/868/915M SOS02

HOT



Metal Remote Control R-B01-DL



Mutual-Duplicating R-B05-C



DIP Switch R-B04-F



Mutual-Duplicating R-A04-C



Mutual-Duplicating R-B05-C



2.4G Remote Control R-B02-2G4

HOT

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



RX

Distinguish signal strength by RGB Lights

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



TX



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

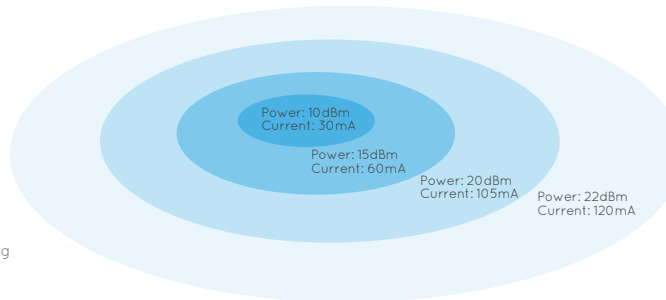


02 Adaptive Power



TX

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



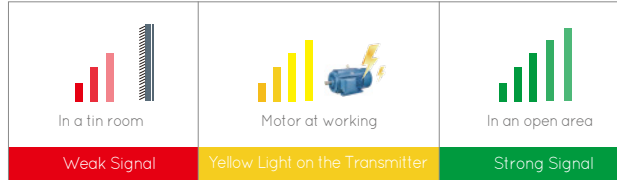
RX

03

Automatically Detect Signal Strength



RX



TX



04

The Role of the Buzzer

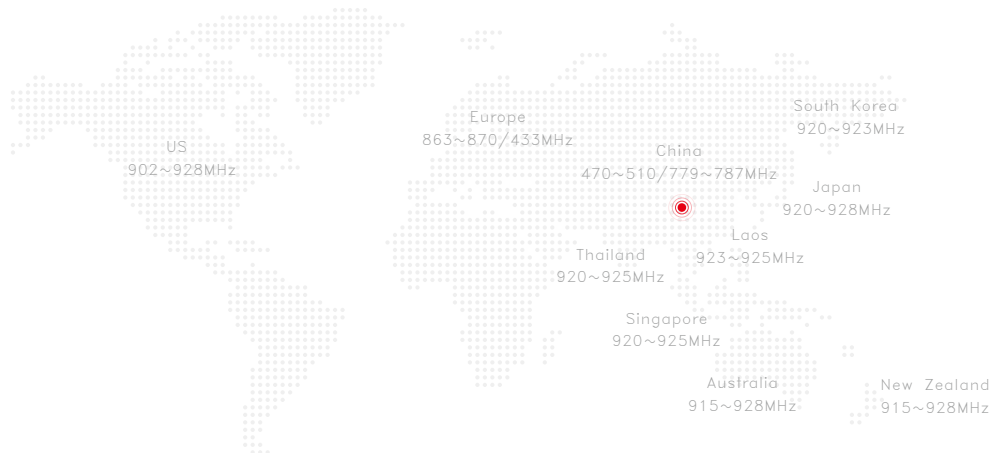


- 1: Two beeps when power on, 500ms each time
- 2: One quickly beep means there is packet loss in communication
- 3: Beep twice means there is interference in communication
- 4: Beep slowly for 1s means the battery is low



Low Battery Alarm

Low battery buzzer alarm
Battery needs to be replaced



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