IoT monitoring

Wireless Parking Sensor, Magnetic and 24GHz Radar

Model CS-iTVP-07

Battery-powered wireless parking sensor combining anisotropic magnetoresistive sensing with 24GHz radar, reporting over LoRaWAN or NB-IoT, ≥97% detection accuracy, IP68.



Accuracy	Output
≥97%	Built-in FPC antenna
Protection	**Supply voltage**
IP68	3.6V

Features

- 24GHz radar with magnetoresistive sensing
- Battery life >5 years
- Reaction time <30S, terminal to platform
- Detection height 0.2–1.2m
- Shell size Φ114mm×89mm

Applications

Indoor parking lots, Roadside parking lots, Open parking lots, Illegal parking detection

Specifications

Wireless

Working band (LoRaWAN)	433MHz/470MHz/868MHz/915MHz/923MHz
Working band (NB-IoT)	B1/B3/B5/B8/B20
Working band (radar)	24GHZ
Type of equipment (LoRaWAN)	Class A
Antenna interface	Built-in FPC antenna
Configure serial port settings	9600,n,8,1 (open the product cover and use the configuration serial port to configure the product)
Reported information	Status, Battery, Signal Strength, PCI, Report Periodicity

Electrical

Operating voltage	3.6V
Battery life	>5 years (under typical working conditions) [1]

Maximum operating current	<300mA

Performance	
Average reaction time for detection	<30S (terminal to platform, based on local operator base station signal quality [2])
Detection height	0.2–1.2m
Horizontal beam width (-3dB)	80° (radar antenna parameters)
Vertical beam width (-3dB)	34°
Integrated detection accuracy	≥97%

Mechanical	
Protection level	IP68
Shell material	PC+ABS material, flame-retardant and sunlight-resistant (up to 5 tons)
Shell size	Φ114mm×89mm
Product weight	About 600g

Environmental	
Operating temperature (NB-IoT, consumer grade SIM card)	(-20–+70)°C
Operating temperature (LoRaWAN / NB-IoT, industrial grade SIM card)	(-40–+85)°C
Storage temperature	(-40–+85)°C

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4 Xingye Road, Xiaowu Second Industrial Zone, Dongyong Town, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.