



Wireless High Performance UHF RFID Reader

1. General Description

SWS200 is our most advanced integrated reader. It contains a RFID Reader and an antenna within the same enclosure. It is designed using an Impinj Indy R2000 chip, which gives the device its impeccable performance especially in ETC applications. It has an advanced antenna design which is tailored for automatic vehicle identification applications. The reader is designed to read only in the area it is meant to read, thereby reducing all counts of cross line read and tailgating. Its waterproof design makes it the best choice for Parking Lot Management, ETC, Warehouse Management, Employee Student Tracking, Vehicle Management and others.

It supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, access control, and anti-counterfeit and industrial production process control system.





2. Specifications

Operating Frequency	Standard ISM 865-867 MHz (IND), 865-868 MHz (EU), 902-928 MHz (US)
Air Interface Protocol	ISO18000-6B, EPC Class 1 Gen2 (ISO18000-6C)
Read Range	Up to 6 meters
Output Power	0 to 30dbi
Antenna	Built In Circular 9 dBi Antenna
RFID Module	Impinj R2000
Frequency Hopping	FHSS or Fixed Frequency Transmission (Supports RSSI)

3. Characteristics

Electrical and Mechanical Specification

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	24V	V
Current Dissipation	I _C		350	650	mA
Frequency	F _{REQ}	865		928	MHz
Operating Temp.	T _{OPR}	-10		+55	C
Storage Temp.	T _{STR}	-20		+75	C

4. Supported Tags

The reader supports the tags frequency range between 865 MHz to 928 MHz.

- General Tags
- Windshield Tags
- Metal/Electronic Tags

5. Applications

- Parking Management
- Electronic Toll Management
- Warehouse Management
- Employee/Student Tracking
- Vehicle Access Management