FULL CIRCLE Technology

RFID innovators, implementers, partners

SP-D100 Fixed Standard Reader

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Product Description

Based on XIUPAI's solely owned SUPER-RFID technology, SP-D100 series omni directional reader/writers offer new solutions for automatic identification system. They are highly competitive and are leading technology in identification of current of materials, vehicles and moving people, also creating added values to customers by exploiting their advanced technologies, completely industrialized design and outstanding price-to-performance ratio.

SP-D100 fixed RO/RW Reader works at 2.45GHz microwave frequency band, communicating with tags wirelessly, collecting and upload data from tags automatically, and communicating with computers through serial port and other ports or wirelessly.

<u>This model has omni-directional external antenna.</u>

Product performance:

Support RS232/485/26 interface modes and communication to upper machine;
Encrypted and certified to assure the safety of data, preventive of eavesdropping and intentional decoding
Applied channel isolation technology, no interferences between equipments
Collision free
Support multi-tags read and write
Customized microwave working modes, adjustable transmission power
Preventive of interferences and thunders
Meet harsh industrial environment requirements

Mechanical characteristics:

parameters	specification
size	160*100*65mm
weight	1 5kg
Shell material	cast aluminum
color	gray/panel
Installation position	Pole or beam
Installation mode	Hanging on side or stick to surface

Microwave link characteristics:

parameters	specifications	
	uplink	downlink
modulation	GFSK	GFSK
frequency	2.4 - 2.4835 GHz	
Transmission power	≤3dBm(software adjustable)	
Antenna polarization	Vertical polarization	
Read/write region	onmidirectional	
Microwave communication distance	2 – 50m	
Microwave communication error check	Cyclic redundancy check(CRC16)	
Communication encryption	Temporarily confidential	
Bit error ratio/B.E.R	10^{-7}	

Electric characteristics:

parameters	specifications
power	RS232/485 +6-+12V DC MAX 30mA
Communication interface	RS232/485/wiegand baud rate 4800-115200 Cyclic redundancy check(CRC16)

Environment characteristics:

Parameters	Specifications
temperature	-40E — +80E
Storage temperature	-60E — +80E
Anti-electromagnetism interferences	10V/m 0.1-1000MHz AM waves
reliability	MTBF≥70000 hours
Work life	15 years