

ZST01

Ver.1.0 10.10.2020

Product data sheet

1. General description

ZST01 is a UHF tag chip which is compatible to EPC gen2v2 and ISO18000-63 protocol. It can be widely used in footwear, logistics, traceability, intelligent manufacturing and other applications.

2. Features

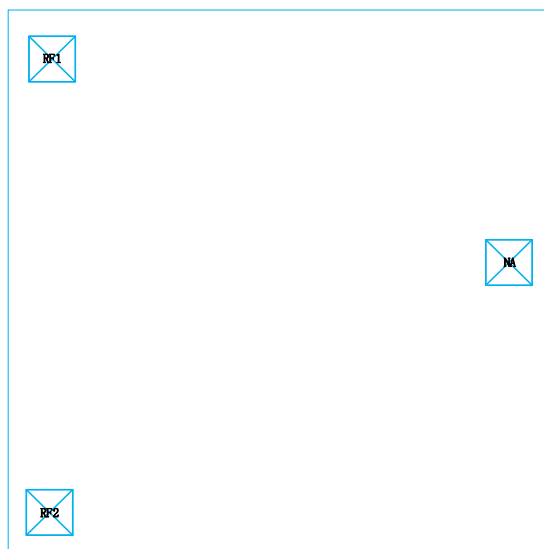
- ◆ Read sensitivity -23.5dBm
- ◆ Write sensitivity -18dBm
- ◆ EPC Gen2V2 and ISO/IEC 18000-63 Compatible
- ◆ 128-bit EPC memory
- ◆ 96-bit TID memory
- ◆ 32-bit access password
- ◆ 32-bit kill password
- ◆ Data retention time: 10years@85°C

- ◆ Minimum 100K write cycle endurance
- ◆ Wide operating temperature rang: -40°C up to 85°C

3. Applications

- ◆ Footwear
- ◆ Logistics/supply chain management
- ◆ Air baggage tagging
- ◆ Asset management
- ◆ Traceability
- ◆ Warehouse management
- ◆ Intelligent manufacturing

4. Pad Description



PAD No.	Name	PAD Purpose
1	RF1	RF1
2	RF2	AF2
3	NA	Dummy Pad

5. Memory

Bank	Address	Description	Memory	Bits
TID	00h-Fh	TID	ROM	96
EPC	00h-0Fh	CRC-16	NVM	16
	10h-1Fh	PC	NVM	16
	20h-7Fh	EPC	NVM	96
Reserved	00h-1Fh	Kill password	NVM	32
	20h-3Fh	Access password	NVM	32

6. Characteristics

Parameters	Conditions	Min	Typ	Max	Unit
Operating Frequency		840		960	MHz
Read Sensitivity	Normal read		-23.5		dBm
Write Sensitivity	Norma Write		-18		dBm
Chip impedance	915MHz		104-729i		Ω
Data retention	Temperature 85°C		10		Year
Endurance	Temperature 85°C		100,000		Cycles
Operating Temperature	Normal application	-40		85	85°C
ESD	HBM			2000	V