

Shenzhen Dianchen Technology Co., Ltd.

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Product Specifications

Model Number: N100100 B0 (14443A Protocol) FPC Tag

Version Version: V1.0

Version	Date	Change content	Approve
V1.0	July 17, 2019	Basic Parameters and Functions	Feng Gongming



一、Overview

N100100 B0 Specification NFC Anti-Metal Tag is an FPC electronic tag, composed of NXP chip, antenna, anti-metal material, and substrate. compliant with the international

14443A protocol, operating at a frequency of 13.56 MHz. with a chip capacity of 140 bytes.

It does not carry its own power source, and operates by harvesting energy transmitted from the reader via the antenna. Communication with the reader is achieved using wireless radio frequency technology.

二、Specifications

1. Chip: NXP
2. Operating Frequency: 13.56 MHz
3. Communication Rate: 106Kbit/s
4. Dimensions: 10×10 mm, total thickness approximately 0.8 mm
5. Standard: 14443A, 140-byte memory
6. Read/Write Cycles: 100,000 times
7. Service life: 10 years
8. Reading distance: Approximately 10mm
9. Data read/write time Less than 100ms
10. Operating Temperature Range: -25 to 85°C
11. Antenna Type: Internal Antenna

三、Functional Description

Schematic Diagram

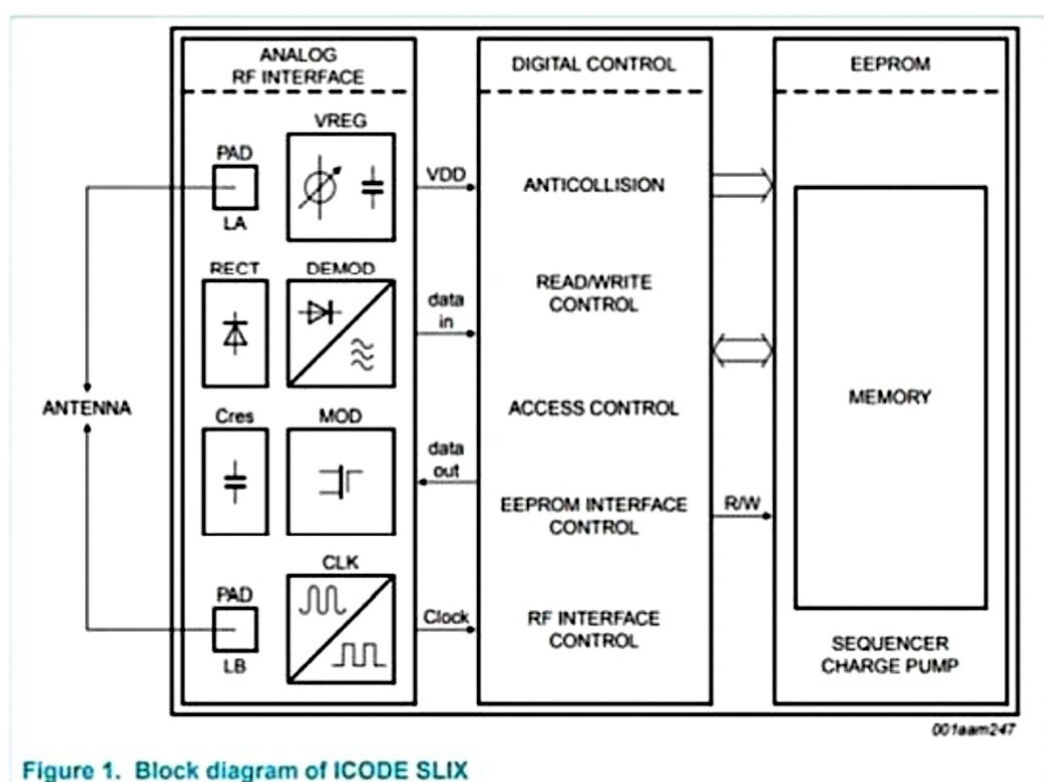
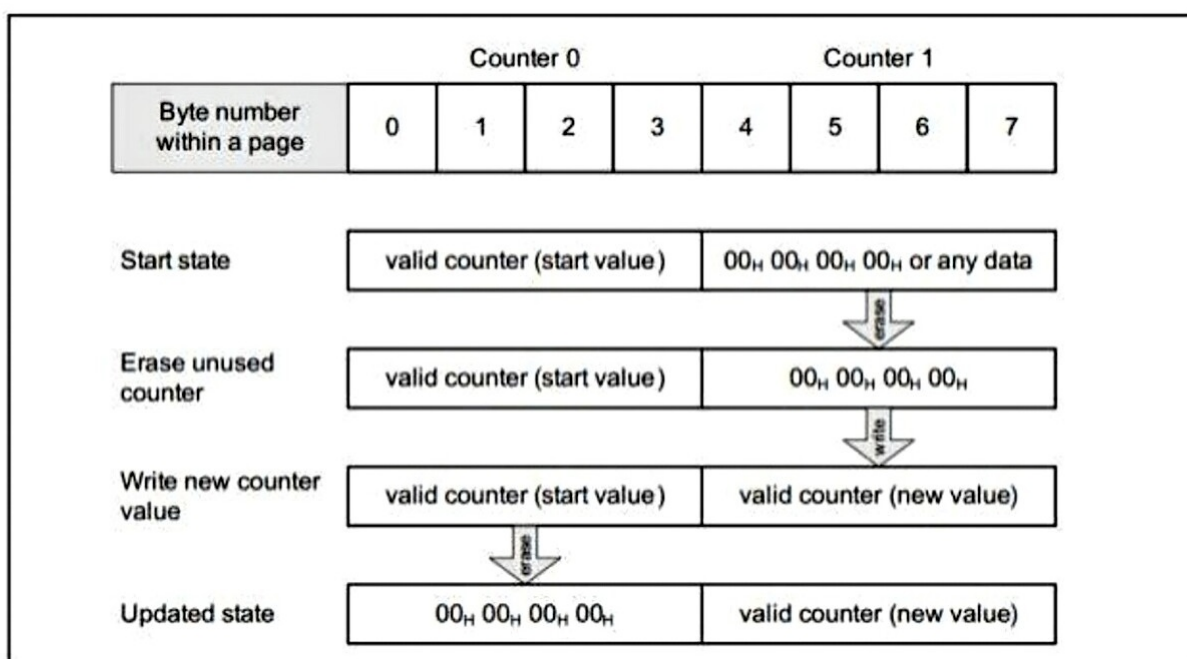


Figure 1. Block diagram of ICODE SLIX

三、Functional Description

EEPROM Memory Structure



四、Test Parameters

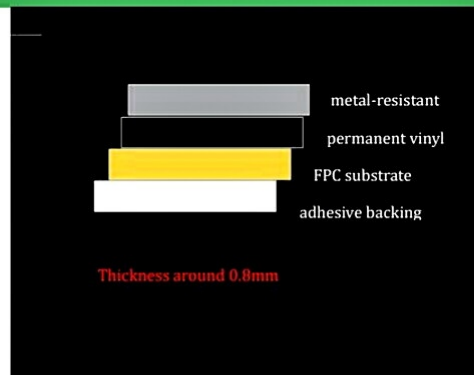
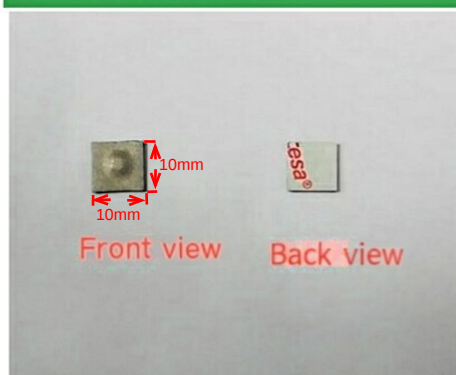
Limiting parameters

Symbol	Parameters	Test Conditions	Range	Unit
Tstg	Storage Temperature Range		-55 to +140	°C
T	Junction Temperature		-55--- +140	°C
VESD	ESD Voltage	-STD-883D	±±2	kVpeak
ImaxLA-LB	Maximum Input Peak Current		30	mApeak

Operating Parameters

Symbol	Parameter	Test Conditions	Minimum	Typical Value	Maximum	Unit
Tjop	Operating junction temperature		-25		+85	°C
ILA-LB	Input Current				30	mArms
Fop	Operating Frequency			13.56	14.50	MHz
Q Factor	Quality			28		

五、Product Picture



Shenzhen Dianchen Technology Co., Ltd. is a high-tech enterprise specializing in the R&D of NFC (Near Field Communication) technology and the integrated research, production, and sales of IoT + RFID accessory products. Since its establishment in 2013, the company has consistently focused on the development of short-range high-frequency radio technology, adhering to continuous product innovation and regional expansion. Currently, our team possesses extensive experience in developing new NFC technology solutions and has independently developed a series of products.

The company maintains stable outsourcing production bases, with all products manufactured strictly according to ISO9001 standards to ensure reliability and stability. Each product undergoes precise instrument testing and rigorous manual re-inspection before shipment to guarantee high-quality delivery to customers.

We are a dynamic team of post-80s university graduates: including postgraduates from leading domestic universities, young professionals with extensive management experience from Fortune 500 companies, and fashion-forward post-90s sales experts.

Shenzhen Dianchen Technology Co., Ltd. rises like the morning sun—vibrant, ambitious, and relentlessly driven. Grounded in technology and market-oriented, we've cultivated extensive operational expertise. Guided by our philosophy of "Advancing Together, Innovating Constantly," we are committed to developing superior NFC products with unmatched value, delivering service that exceeds expectations for both new and existing clients.

Contact Us

Please contact us to learn more about our services and products.

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Shenzhen Dianchen Technology Co., Ltd.

Professional and Dedicated to the NFC Field