



QMars-5X

Summary:

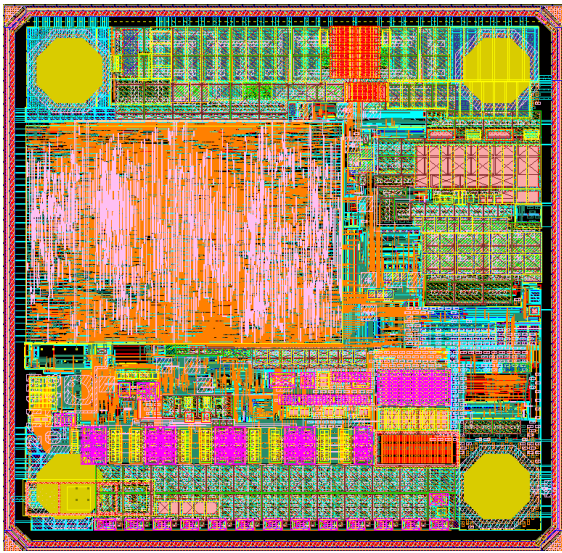
Qmars-5x is fully compatible with ISO / iec14443 type A and NFC forum type 2 protocol protocols. The user memory size is 144bytes, supported by industry-leading 3DES encryption algorithm and breakthrough chip physical anti transfer technology, it can not only meet the needs of general market users, but also meet the needs of industrial full life cycle asset management. It is widely used in outdoor and print media intelligent advertising, product anti-counterfeiting verification, NFC shelf labels, consumer electronics and electronic business cards and other fields.

Feature

- Comply with ISO / IEC14443 type A and NFC forum type 2 protocol
- Minimum reading field strength ≤ 0.1A/m (standard Id-1 size antenna)
- Input port capacitance 50pF
- User storage capacity 144bytes
- Super long data storage period 85 °C for at least 30 years
- At least 100000 data erasures
- High speed data transmission, up to 106kbit / S
- Compatible with Ntag213 mode (optional)
- Compatible with ultralight C mode (optional)
- Support 3DES encryption authentication
- ESD: HBM > 2KV

Typical applications

- NFC shelf label
- Electronic posters
- Product anti-counterfeiting verification
- E-ticket
- Consumer electronics
- Electronic signature card



Operating conditions and Electrical characteristics

Frequecy range	Parameter	Condition	MIn	Typ	Max	Notes
HF	Operating frequency			13.56MHz		
	Communication speed			106Kbit/S		
	Read sensitivity			0.1A/m		[1]
	Erase/Write sensitivity			0.11A/m		[1]
	Input parallel capacitance			50pF		
	Data retention	85°C	30 year			
	Erasure cycle duration		100,000			

[1] with ID-1size antenna

上海坤锐电子科技有限公司  
Quanray Electronics CO.,LTD  
电话(Tel): 86-21-68795432  
Email: marketing@quanray.com sales@quanray.com  
网址: http://www.quanray.com  
地址: 上海市浦东张江张东路1387号10-1幢 (201203)  
ADD: 10-01 Building 1387 Zhangdong Road. Pudong District,Shanghai (201203)

