

NFC-SIM™

Empowering all phones to be NFC

NFC CONTROLLER & ANTENNA

- ✓ Built-in NFC Controller
- ✓ Built-in Analog Front End & NFC Antenna
- ✓ Built-in Booster Circuit to Overcome Interference
- ✓ Plug-in compatibility with any mobile phones, no NFC phone required



3G & LTE SUPPORT

- ✓ Delivering everything needed for 2G, 3G HSDPA, HSDPA+ LTE Connectivity
- ✓ 2FF and 3FF SIM Cards are Available

SECURE ELEMENT

- ✓ DES / 3DES, SM1, 2048bit RSA, SM2
- ✓ Support TRNG
- ✓ EAL5+Common Criteria



PAYMENT



COMMUNICATION



SECURITY



TRANSPORTATION



LOYALTY



ACCESS

A Product of:



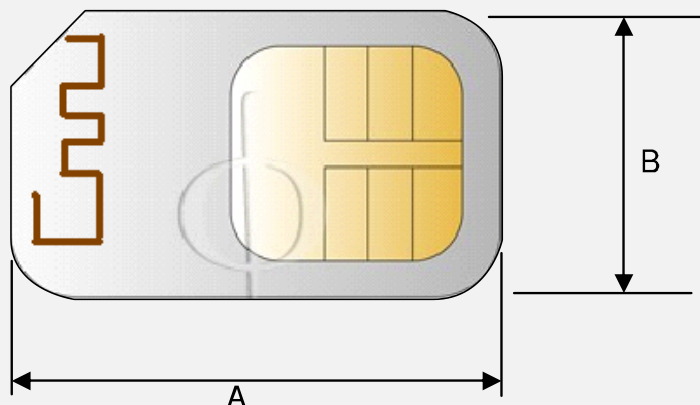
MDT INNOVATIONS SDN. BHD.

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NFC-SIM



MECHANICAL DIMENSIONS

A	Length	25.0 ± 0.2	mm
B	Width	15.0 ± 0.2	mm

WHAT IS NFC-SIM?

- New generation SIM card with embedded RFID.
- Plug and play into all cell phones, an ultra-compatible solution to all existing cell phone models.
- Provide near field communications, overcoming challenges of metal interference.
- Inexpensive solution to enable providers to provide near field applications such as mobile payment.

WHAT ARE NFC-SIM ADVANTAGES?

- It is clear that RFID on SIM card is more attractive to allow Telco to maintain tight control over customers.
- RFID on SIM does not require customer to have handset upgrade.
- Overcomes communication problems due to interference from PCB and metal casing.

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FEATURES

Applications	• Access Control • Communication • Promotions • Payments • Security • Loyalty • Transportation • Advertising • Internet
Operating Distance	Typically ~3cm desktop reader
Frequency	13.56MHz
NFC Protocol Compliance	ISO14443A
Functions	Multiple Read Capability: Anti-collision compliant to ISO14443-3 Type A
Memory	• 768KB NOR Flash, included: ✓ 744KB User Flash Program / Data Area ✓ 8KB Chip Management Program Area ✓ 16KB Chip API Program Area • 32KB SRAM Area
Mobile Network Support	• GSM • UMTS • LTE
ETSI	• Conform to ETSI TS 102 613 V7.6.0, HCI V7.5
Operation Capability	• Under Metal Cover • Underneath Battery • Controlled Detection Distance

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DELIVERY FORM

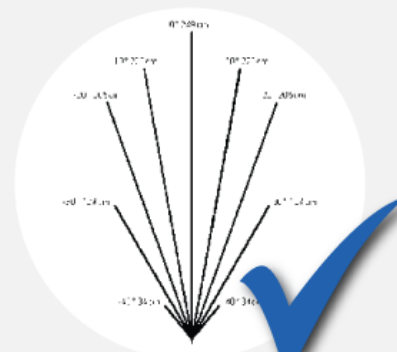
Physical Characteristics	2FF SIM
Antenna	On board NFC Antenna with AFE Circuit
Antenna Material	PCB antenna
Operating Voltage	1.62V – 3.3V
ESD	>4000V (HBM)
Operating Temperature	- 20°C to 85°C
Storage Temperature	- 40°C to 125°C
Write Endurance Cycle	100,000 cycles
Data Retention	Typical 10 years
Final Inspection	100% inspection. Yield >95%. Bad Units were marked.
Printable Area	Yes (optional)
Appearance	Singulated Unit



METAL COVER



BATTERY



CONTROLLED DETECTION DISTANCE

Data Sheet Version	NFC-SIM-03
Date	12 APRIL 2017

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