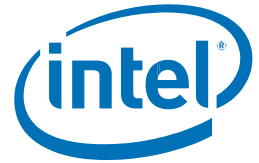




PRODUCT BRIEF
Intel® Wireless-NFC 4000
 Near Field Communications Controller



Intel® Wireless-NFC 4000



Product Description

Intel® Wireless-NFC 4000 (WCS4000) is a compact solution for the next generation of close-proximity wireless applications. Designed for ultra-low power, WCS4000 supports Reader/Writer, Peer-to-Peer, and Card Emulation modes to enable applications such as mobile payment & transit card emulation, tag reading/writing, and easy device pairing.

Product Features



Advanced NFC Capabilities

- Advanced radio architecture enabling superb user experience for tri-modal designs
- Excellent receiver sensitivity; very small antenna support for full EMVCO card emulation performance
- Advanced mechanisms for antenna tuning and integration
- Support for dual SIMs and one additional secure element



Built-in Power Efficiencies

- Integrated power management unit; supports direct battery connection
- Ultra low power target detect polling and field detect
- Ultra low power standby for long battery life on the shelf



Cost Reduction Features

- Low component count; no additional electromagnetic interference filter required on transmitter
- Support for reference clock sharing (19.2MHz to 40MHz)
- Combined transmit and receive pins reducing number of passives

Intel® Wireless-NFC 4000 Technical Specifications

General

Host I/F	I2C (NC1.1)
Secure Element IF	SWP ; 3 SE supported
Package	QFN32 4x4
Minimum PCB Area	48 mm ² (QFN32) (assuming 1 SIM)
Reader/Writer & Card Emulation Modes	ISO 14443 A/B, ISO 15693, JIS X 6319-4 NFC Forum Type 1,2,3,4 (MIFARE & FeliCa NFC Forum Compliant tags)
Peer to Peer Mode	ISO 18092 (up to 424 Kbps)
Transmitter Output	Linear output up to 250mA
Power Supply	Battery on, Battery low
Operating Systems	Android, Windows
Secure element support	All major third parties

Product Name	Model Number	Version
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Intel® Wireless-NFC 4000	WCS4000	32-pin 4mmx4mm QFN
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