

MCR3701

Contactless NFC Module



- **CONVENIENT**
Whether connecting to your laptop or to a phone, we've got you covered with a USB-A connector.
- **Small size for easy integration (58*19*4.5mm)**
- **CONVERGENT**
Features contactless and NFC technologies for use with mixed credential populations and form factors
- **INTEROPERABLE**
Supports major card ICs, standards and technologies in just one device
- **FAST**
Transaction time optimized with 848 kbs support in ISO/IEC 14443 for maximum end-user acceptance
- **READY TO USE**
Driver support for all major computer, tablet, mobile phone operating systems

MCR3701 Contactless NFC Module is perfect for mobile users, with USB Type A Connectors, and is especially designed for NFC applications requiring great portability and utmost user convenience. Although slim, the dimensions of this reader have been optimized to ensure the best radio frequency (RFID) performance possible. Developed based on the 13.56 MHz Contactless (RFID) Technology and the ISO/IEC 18092 standard for Near Field Communication (NFC), it supports not only Mifare and ISO 14443 Type A and B cards but also all four types of NFC tags.

MCR3701 can easily be integrated in a computer-based or mobile device-based environment. Its drivers are compatible with operating systems such as Windows®, Linux®, and Mac OS®. In addition, MCR3701 may now be used on mobile devices running on Android™ versions 4.0 and higher.

With MCR3701, the end user experiences convenience, transaction-time efficiency, security, flexibility and full NFC capability for applications such as network log-on, secure web-based transactions and even NFC-based customer loyalty programs. This sleek and simple pocket-sized reader is designed to be used anytime and anywhere, perfectly fit for your smart card solutions.

Typical Applications:

- e-Government
- Banking & Payment
- e-Healthcare
- Access Control
- Network Security
- e-Purse & Loyalty
- Transportation

PARAMETER	MCR 3701
Supported Card Chips	<ul style="list-style-type: none"> Lascom cards MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k), FeliCa™, NFC Forum Tag types 1/2/3/4
Data Transfer Rate	106, 212, 424, or 848 kpbs, depending on card IC
Antenna	Integrated
Driver and Software	
PC/SC Driver	<p>PC/SC specification ver. 2.01.14 for:</p> <ul style="list-style-type: none"> Windows® 7/8/ 8.1/10 (32 and 64 Bit) Windows® Server 2003/2008/2012 MacOS 10.10.x, 10.11.x, 10.12.x Linux 2.6.x (32 and 64 bit) Android 4.0 and higher
Software	PC/SC API
Operating Conditions	
Power Supply	Bus-powered USB
Power Consumption	50mA, excluding card
Dimensions	58 x 19 x 4.5 mm
Weight	6g ± 5%
Operating Temperature Range	0° to 50°C (32° to 122°F)
Storage Temperature Range	-25 to 85°C (-4 to 140°F)
Operating Humidity Range	Up to 95% RH non-condensing
MTBF	~5M hours
Connector	with USB Type A Connectors
Status Indicator	LED
Firmware	SmartOS™
Firmware In-Field Upgradeable	Yes
Certifications/Compliances	
Systems/Standards	USB 2.0 Full Speed, CCID, Microsoft® WHQL
Ordering Information	
Product Part Number	219014-MCR3701-M

FCC warning statements:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement.

IC warning statements:

-English Warning Statement:

RSS-GEN ISSUE 5, 8.4 User manual notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

-French Warning Statement:

RSS - Gen version 5, 8.4 avis du manuel de l'utilisateur

Cet appareil contient un émetteur / récepteur sans licence conforme au RSS sans licence d'innovation, science et d'économie Canada. L'opération doit satisfaire aux deux conditions suivantes:

Cet équipement peut ne pas causer d'interférence.

L'équipement doit accepter toute interférence, y compris toute interférence qui pourrait entraîner un fonctionnement indésirable de l'équipement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR). Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation du débit d'absorption spécifique (DAS).

This equipment should be installed and operated with minimum distance 5mm between the radiator & your body.

Lors de l'installation et du fonctionnement de cet équipement, la distance minimale entre le radiateur et le corps doit être de 5mm.