



MCR100 USB Module

MCR100 USB are cryptographic module, used to decrypt information contained on the transponders and to securely store all the cryptographic keys used in the decoding process.

Product Code: 100.308

• Product Specifications

The cryptographic module, hereafter defined as MCR, is used to decrypt information contained on the transponders and to securely store all the cryptographic keys used in the decoding process. The MCR must keep all the keys safe as to not expose any sensitive data or key that would eventually compromise the system's security. The MCR is a combination of hardware and firmware where all the sensitive processes such as encryption and decryption are done by the MCR's hardware. The MCR has an USB 2.0 communication interface and hardware support for both AES and RSA encryption/decryption algorithms. It also has a "FIPS PUB 140-2 Appendix C" approved algorithm for random number generation. The hardware component used in all the cryptographic processes is approved by the NIST FIPS 140-2 standards, with Security Level 3 for the security requirements.

• Special Functions

- Powerful SDK for developing applications that run directly on the reader;
- Energy saving mode;
- Two sockets SAM (Secure Access Module) embedded;
- Additional interfaces for OEM PCB version;

• Technical Specifications

Power	5 VDC (via USB or external source)
Consumption	120 mA @ 5 VDC
Communication interfaces	USB 2.0
Dimensions	88 x 56 x 18 mm
Weight	20 g
Operating Temperature	-25° to 80°C
Microcontroller	ARM Cortex-M4
Relative Humidity	5% to 95% noncondensing
Protection Degree	Not apply
Installation	Built-in equipment with USB interface

