



Products for Cashless Ticketing & Payment

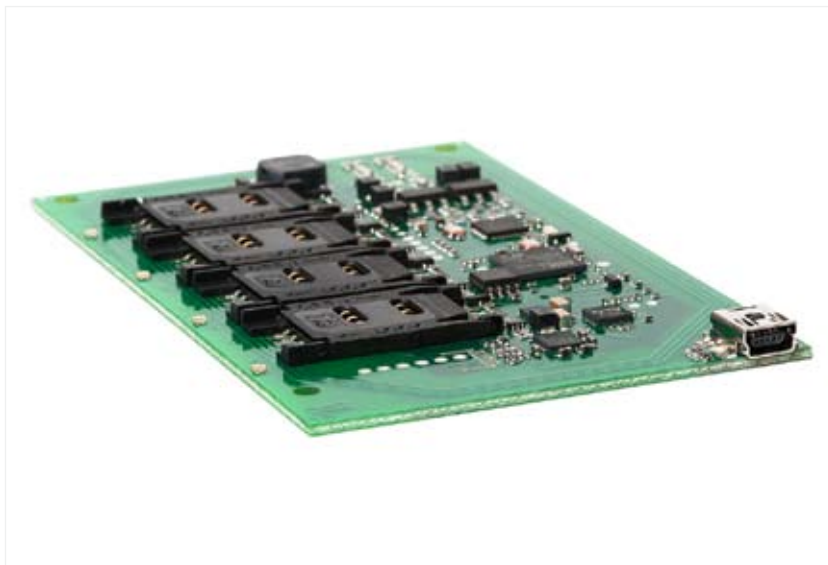
ARC1300^{OEM} Reader

OEM USB/RS232 contactless smart card reader for easy integration

ARC1300^{OEM} is a high performance and flexible OEM contactless ISO 14443 A/B smart card reader that is designed for easy integration in different cashless ticketing and payment devices, such as validators, turnstile gates, driver consoles, add value machines and ticket vending machines.

ARC1300^{OEM} is based on the 13.56 MHz contactless technology and is fully compatible with the entire MIFARE family, as well as supporting Smart MX, Calypso, EMV contactless and NFC. The reader comes with an extensive software support package that is optimized for easy integration, as well as support for the entire MIFARE family.

ARC1300^{OEM} meets the demand for high security and high speed transactions, providing system integrators and solution providers a reliable contactless smart card reader that can easily be interfaced with different cashless payment and ticketing applications. ARC1300^{OEM} is available with USB and RS232 interface.



Key Features

- Open architecture with Linux OS
- QT 4.6 Application Framework
- Powerful 400Mhz ARM9 CPU
- Vehicle and railway certified
- Several communication interfaces
- ISO/IEC 14443 A/B smart card reader

Add-on technology

- GPRS / UMTS / CDMA modem
- 5.7" or 8.4" TFT touch display
- Magstripe reader
- 2D bar code camera
- Up to 20 physical buttons

Easy Integration

- Mobile devices for ticket inspection
- Ticket Vending Machines
- Add Value Machines
- Validators
- Point Of Sale terminals
- Driver consoles
- Turnstile gates
- Vending machines
- Parking meters



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Technical Specification

RF Frequency:	13.56 MHz
RF Standards:	ISO/IEC 14443 A/B, ISO/IEC 18092 (NFC)
RF Speed:	106 kBit/s, 212 kBit/s, 424 kBit/s
RF Reading Distance:	Up to 100mm (depending on tag)
RF Antenna:	Integrated, external antenna possible
RF Amplifier:	Yes
SAM Security:	4 x SAM ISO/IEC 7816 slots with up to 1.1 Mbit/s
Crypto algorithms:	3DES, AES, RSA, PKI
Hash Algorithms:	SHA1, SHA2, MD5
Processor:	ARM 72 MHz
Firmware Upgrade:	Yes, field upgradeable
Host Communication:	USB, RS232 or TTL (communication speed up to 1Mbit/s)
Host Interface:	USB Mini Vertical/Horizontal, Pinlist, Screw Terminal, FPC
User interface:	4 x triple coloured LEDs (red/green/yellow)
Dimensions:	110mm x 67mm
Weight:	Approx. 30g
Operating Temperature:	-40°C to +85°C
Storage Temperature:	-40°C to +85°C
Power Supply:	5V ± 5%
Current Consumption:	280mA (operational), 70mA (RF off), 2mA (sleep)
Compliances:	RoHS, FCC, WEEE, CE for bus, tram and rail
Supported Tag-ICs:	MIFARE 1k, MIFARE 4k, MIFARE Plus, MIFARE UltraLight, MIFARE UltraLight C, MIFARE DESFire, MIFARE DESFire EV1, MIFARE SmartMX, ISO 14443A tags, ISO 14443B tags, FeliCa RC-S860, FeliCa RC-S885, FeliCa RC-S965, Calypso, VDV
Supported SAMs:	MIFARE SAM (DESFire), MIFARE SAM AV1, MIFARE SAM AV2, S9TSAM, NSAM, Calypso SAM, FeliCa SAM and other ISO/IEC 7816 compliant SAMs
Optional Features:	Tamper Switch (incl. backup battery) Real Time Clock (incl. backup battery) Audio Buzzer (internal or external) 4 MB additional storage 4 x LEDs (internal or external) External antenna External SPI interface

