ARC2310 T2 e-Ticket Smart Card Reader

A rugged and fully integratable compact NFC smart card reader

The ARC2310 T2 is a standalone contactless smart card reader designed for use in a variety of payment and ticketing applications, offering faster and more convenient transactions. With its rugged construction and compact size, the T2 can be integrated in almost any sales device, such as vending machines, access control gates, fareboxes, kiosks, parking systems, loyalty schemes and gaming applications.

The T2 is housed in a metal case for maximum protection, meeting the demands of any unattended environment. Due to the ferrite-shielded antenna, the T2 can be mounted on all types of material without compromising the reading range or the need to be re-certified or re-tuned. When integrated, the reader measures only 8mm from the terminal's surface, offering a fully customizable solution. Moreover, it does not compromise the integrity of the IP rating of the host unit.

Designed with an ISO/IEC 14443 A/B and NFC contactless smart card reader, the T2 supports a wide range of contactless standards within ticketing and payment, including the entire MIFARE family, Smart MX, FeliCa and Calypso, as well as being EMV contactless extensible. For added flexibility and seamless integration, the T2 comes with an extensive software support package and multiple interfaces, including Ethernet, USB and RS232. Moreover, it comes with an audio buzzer, 4 LED lights and a clearly marked landing zone.

With its robust and unique form factor and contactless capabilities, the ARC2310 T2 is the ideal solution for upgrading new and existing payment and ticketing solutions with enhanced contactless features.

Areas of use:
- Fareboxes
- Add Value Machines, Ticket Vending Machines
- Turnstile Gates
- Vending Machines, Kiosks
- Parking Meters
- Gas pumps at petrol stations

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 50mm (depending on smart card)
RF Antenna:	Integrated
SAM Security:	4 x ISO/IEC 7816 SAM slots with up to 1.1 Mbit/s
Crypto Algorithms:	3DES, AES, RSA, PKI
Hash Algorithms:	SHA1, SHA2, MD5
Processor:	i.MX287 working at 450MHz, Flash 4GB eMMC, Linux Kernel 3.1, RAM 128MB
Firmware Upgrade:	Yes, field upgradeable
Interface:	RS232, Ethernet 10/100 Mbit/s, USB OTG (On The Go), MicroSD slot
User Interface:	4 x Triple coloured LEDs (red/green/yellow), Audio buzzer
Power Supply:	9-36V DC
Current Consumption:	Approx. 4W
Dimensions:	100x80x60mm
Mounting Hole Required:	95x75mm, front/plate max 6mm thick
Weight:	Approx. 370g
Operating Temperature:	-25°C to +50°C
Storage Temperature:	-30°C to +70°C
Compliances:	RoHS, FCC, WEEE, CE for bus, tram and rail

Supported Smart Cards:	MIFARE 1k, MIFARE 4k, MIFARE Plus, MIFARE UltraLight, MIFARE UltraLight C, MIFARE DESFire, MIFARE DESFire EV1, MIFARE SmartMX, GTML, GML2, ISO 14443A tags, ISO 14443B tags, FeliCa RC-S962, FeliCa RC- SA01, Calypso, VDV
Supported SAMs:	MIFARE SAM (DESFire), MIFARE SAM AV1, MIFARE SAM AV2, S9TSAM, Calypso SAM, FeliCa SAM and other ISO/IEC 7816 compliant SAMs
FCC Compliance info:	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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.