



Products for Cashless  
Ticketing & Payment

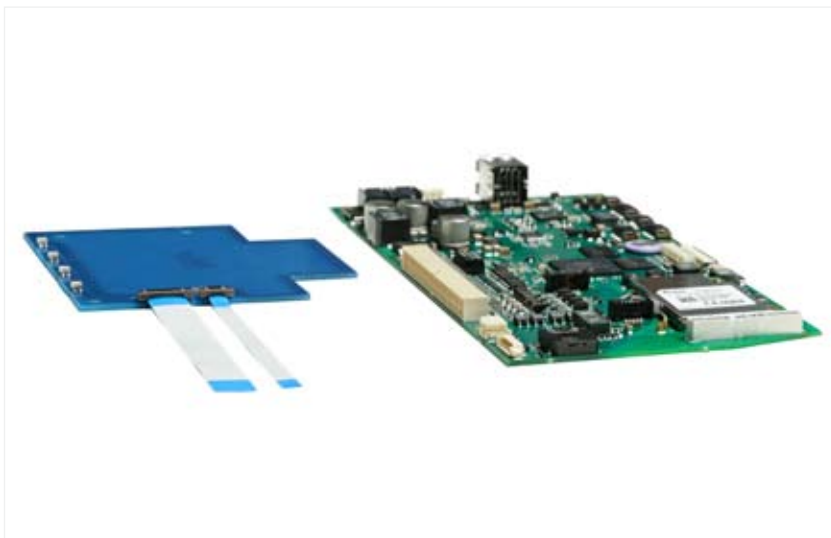
## ARC1810<sup>OEM</sup> Smart Card Controller Board

Embedded technology for contactless ticketing and payment solutions

ARC1810<sup>OEM</sup> is a high performance contactless smart card controller board that is designed to operate together with different cashless ticketing and payment applications. ARC1810<sup>OEM</sup> features a series of high speed communication interfaces, enhanced contactless feature and advanced functionality, as well as meeting a wide range of global ticketing and payment standards.

Designed with a powerful CPU and a fully embedded ISO/IEC 14443 A/B contactless smart card reader, ARC1810<sup>OEM</sup> is ideal for use in different cashless ticketing and payment devices, such as validators, turnstile gates, driver consoles, add value machines and ticket vending machines. ARC1810<sup>OEM</sup> comes with a software support package and an external antenna for enhanced reading performance.

ARC1810<sup>OEM</sup> is a flexible and cost-efficient solution for system integrators and solution providers looking for a highly configurable embedded platform for use in cashless payment and ticketing applications. For quick product launch, customers can integrate ARC1810<sup>OEM</sup> in their own product portfolio and add their own custom branding to it.



### Key Features

- Open architecture with Linux OS
- QT 4.7 Application Framework
- High-end 400MHz ARM9 CPU
- Several communication interfaces
- ISO/IEC 14443 A/B smart card reader
- Compliance to EMV contactless

### 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

- Validators
- Ticket Vending Machines
- Driver consoles
- Turnstile gates
- Access control gates
- Other smart card devices



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### Technical Specification

Software Platform:	Busybox 1.17.3 with Linux Kernel 2.6.28 QT 4.7 Application Framework Python 2.6.2 Arcontia Reader Support Package
System:	ARM9 Freescale 400 MHz Up to 256 MB DDR2 RAM Up to 1024 MB NAND Flash Real Time Clock with Backup Battery Temperature Monitoring
User Interface:	5.7" LCD Interface 8.4" LCD Interface <sup>1</sup> Capacitive Touch Interface Onboard Buzzer + External Buzzer Support Onboard Audio Speaker <sup>1</sup> 3 x Keyboard Interface (up to 20 keys) 8 x External LED Control
Contactless:	ISO/IEC 14443 A/B RFID Reader + RF Amplifier 4 x ISO/IEC 7816 SAM Slots Direct External Antenna Interface 50 Ω External Antenna Interface
Connectivity:	Ethernet 10/100 3 x RS232 (including console port) RS485 <sup>1</sup> 2 x USB Host Ports <sup>1</sup> WIRE Cradle ID Interface GPRS/UMTS/CDMA Modem <sup>1</sup>
Peripherals:	microSD Card Magstripe Reader Interface 2D Bar Code Camera Interface
Control:	Ignition Signal Input <sup>1</sup> 4 x Isolated Bipolar Inputs <sup>1</sup> 4 x Isolated Bipolar Outputs <sup>1</sup> 2 x Auxiliary 5V Power Supply <sup>1</sup> Auxiliary 12V/24V Power Supply <sup>1</sup>
Power Supply:	9 VDC - 36 VDC (automotive specified) Li-Ion Backup Battery, more than 1h full operation <sup>1</sup>
Power Consumption:	5W (normal operation)
Storage Temperature:	-40°C to +80°C
Operating Temperature:	-40°C to +70°C
Humidity:	5% to 95% (non condensing)
Dimension:	195mm (L) x 100mm (W) x 12mm (H)
Weight:	140 g
Compliances:	RoHS, 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, Calypso, VDV
Supported SAMs:	MIFARE SAM (DESFire), MIFARE SAM AV1, MIFARE SAM AV2, S9TSAM, Calypso SAM

Note 1: Optional features

