



ORCANTHUS® CL1356T

**Top-of-the-line contactless reader
For highly demanding applications**

- **ISO 14443 Type A and B support**
- **One of the FASTEST reader on the market**
- **Read and Write speed up to 847 kbps**
- **Greatest reading distance**
- **Successful interoperability tests with over hundred of different ePassports**
- **In-field upgradable firmware**
- **Multi-activation**



Typical Applications

- ICAO ePassports inspection system
- Test and personalization machine
- Public Transportation Terminals
- Micro-payment
- Ticketing, vending machines
- Parking and fare collection

**& Security
Traceability**
of the enterprise

The Orcanthus® CL1356T is designed for any demanding applications that require, speed, reliability, interoperability and good operating distance.

Therefore the CL1356T is perfectly adapted to ePassports reading or ePayment applications, which require the highest performances.

The reader handles ISO14443 contactless smartcards with up to 847 kbps.



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High performance

FAST

Featuring 2 microprocessors including a DSP which is totally dedicated to the data computation, the CL1356T is one of the fastest contactless reader on the market. It has become the **reference reader** of different smartcard OS developers who try to **demonstrate the speed of their chip**.

RELIABLE

The CL1356T is robust enough to deal perfectly with the **maximum baudrate of the ISO 14443 standard**, which is 847 kbps. Most of the readers on the market are limited to 212 kbps or sometimes 424 kbps.

ROBUST

The card operating **distance is up to 10 cm**. For example, a MIFARE® Classic card has a measured reading distance of about 9 cm.

INTEROPERABLE

The CL1356T reader passed successfully the ICAO interoperability tests, which means over a hundred of ePassports with different chips and different antennas have been properly read by the reader.

Simplicity, flexibility

CCID

CL1356T, as a CCID compliant reader, is a **Plug and Play** device. No need to provide any driver!

IN-FIELD FIRMWARE UPGRADE

CL1356T is flash upgradable in the field for future **unlimited updates!**

This warrants a future-proof investment providing flexibility for new applications or evolution of the contactless technology standards.

Fast integration time

SDK (C/C++, JAVA)

In order to help you reduce your integration time, complete and **free Software Development Kits** are available.

For other languages, please contact us.

Specifications

Host interface

Host interface	USB 2.0 (full speed)
Transmission speed	up to 847 kbps
Power supply	12 DC, 350 mA with an external power supply
Card operating distance	Up to 10 cm (depending on cards)
RF power	700 mW

Contactless (RFID) Smart card interface

ISO 14443 A with 847Kbps transmission rate

ISO 14443 B with 847 Kbps transmission rate

Other features

Status indicator Dual color LED

CL1356T is available in OEM version upon request

Supported APIs

PC/SC driver 2.01 (including multi-activation)

PC / SC Driver support

Windows® 2000, 2003 Server, 2008 Server, XP (32-bit), XP (64-bit), Vista (32-bit), Vista (64-bit), Linux 2.6 or higher, Mac OS X

Hardware specifications

Tablet color	RAL90002 grey
Tablet size (LxWxH)	19 x 13.5 x 1 cm / 7.48 x 5.31 x 0.39 inches
RF module size	10 x 6 x 3 cm / 3.94 x 2.36 x 1.18 inches
RF cable length	1 m (between RF module and antenna)
USB cable length	2 m USB-A / USB-B
Power supply cable length	1.5 m

Environmental specifications

Operating temperature	0°C, +50°C
Operating humidity	80%
Antenna housing composition	ABS UL94-V0
RF module housing composition	ABS

Compliance / Certification

Microsoft WHQL , USB CCID

Safety / Environmental

CE, FCC, RoHS, WEEE

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