

GENERAL INFORMATION

1.1. Product description

The Stella Compact Flash SCF 303 coupler is an universal RFiD contactless reader/writer providing efficient and secure interface for your 13,56 Mhz contactless applications. Its form factor is a Compact Flash type I Extended Card. The electronic board includes :

- The controller
It manages all the exchanges between the terminal and the antenna through a 50 pin Compact Flash interface. It contains also 2 SAM slots. A Stella application firmware is embedded providing a unique independent platform software thanks to the Stel'Host Application Programming Interface (see *§1.2 For more information* for detailed reference documentation).
- The active antenna
It provides the RF link between the cards and the controller at 13.56 Mhz frequency.

The Stella Compact Flash SCF 303 coupler is able to drive a various of contactless cards, including **Mifare®¹** and **Calypso®** cards, based on 13.56Mhz RFiD technology (ISO/IEC 14443 A & B and ISO/IEC 15693 standards) using 10% or 100% ASK modulation.

The Stella Compact Flash SCF 303 coupler also manages the 5V electrical interface and communication for two ISO 7816 contact cards, also called Secured Access Module (SAM).

The Stella Compact Flash SCF 303 coupler use an active 45mm x 32mm antenna embedded inside the board. It offers a low cost and useful communication range up to 4 cm².

The Stella Compact Flash coupler has a bi-color green-red LED driven by the terminal application layer.

1.2. Related Submittal(s) / Grant(s)

All host equipments used in the test configuration are FCC granted, when relevant.

1.3. Tested System Details

The FCC IDs for all equipment, with description of all cables used in the tested system are:

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
Stella Compact Flash SCF303 s/n: A115400003-000001	WRUSCF303BTREADER	RFID reader	None
Interface Card	DOC		None
PSION TEKLOGIX model Work About Pro WA9007-G1 s/n: 1050773	DOC	PDA	None
PSION TEKLOGIX model WA3006 s/n: WA7AC7036179	DOC	Battery	None

*: Equipment under test.

1.4. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart C.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5. Test facility

Tests have been performed on July 16th, 2008

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-2003 in a letter dated March 25th, 2008 (registration number 94821). This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.