

CSB4.4U, CSB4.4S - END-OF-LIFE NOTICE

Dear customer,

Following the introduction of the K663 module in 2013, which offers the same features as former K632 yet overtaking its performances, SpringCard is now improving the CSB4 family.

The CSB4.4 generation products, based on the K632 core, will be retired by the end of 2014. They are replaced by the CSB4.6 generation products, based on the K663 core. The technical differences between both generations are listed on the pages after.

Old product	Part No.	Name	Replaced by	Part No.
CSB4.4U	SC0228	ISO 14443 A & B + ISO 15693 coupler, USB interface	CSB4.6U	SC14175
CSB4.4S	SC9181	ISO 14443 A & B + ISO 15693 coupler, Serial interface	CSB4.6S	SC14176

The new product page is already online at

<http://www.springcard.com/en/products/csb4-6.html>

Please browse to this page to retrieve the Information Sheet and the links to the SDK and Quickstart package.

CSB4.4U and CSB4.4S could be ordered until 31/12/2014. Last ship date is fixed to 31/03/2015. Customers are welcomed to evaluate CSB4.6U or CSB4.6S in the interval.

Please contact sales@springcard.com should you need to arrange a loan or to buy a first batch for evaluation purposes.

Thanking you for your renewed confidence,

Denis Pietersoone, *President*

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IT MAY BE THE RIGHT TIME TO TAKE THE MOVE FOR PC/SC COUPLERS!

We would remind you that since 2008-2009, SpringCard's strategy regarding PC-based readers/writers is to focus on PC/SC couplers (Prox'N'Roll PC/SC, CSB-HSP). We are strongly committed to ensure compliance of our PC/SC line with today's and future's major desktop and laptop operating systems.

On the other hand, the CSB4 line is a Legacy of pre-PC/SC systems. No assumption could be made regarding the compatibility of these products with any future version of the operating systems.

Customers currently using CSB4.4U together with Windows or Linux systems are therefore encouraged to take the move to either Prox'N'Roll PC/SC or CSB-HSP LT.

Please contact sales@springcard.com if you wish to evaluate one of our PC/SC coupler.

FOR MORE INFORMATION

Don't hesitate to contact us on info@springcard.com . Visit regularly our technical blog at

www.springcard.com/blog

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TECHNICAL DIFFERENCES BETWEEN CSB4.4 AND CSB4.6

Major changes

- Upon startup, the CSB4.6 sends the string "K663" (instead of "CSB4").
- The RTS line of the serial interface controls the reset input of the CSB4.6 (but was unused on the CSB4.4 and earlier).

As a consequence of the above changes, **the CSB4.6 is not compatible with versions < 1.73 of the SpringProx API**. Customers shall **upgrade to the latest version of the API** (1.80 at the date of writing) by downloading the SDK for SpringProx API:

<http://www.springcard.com/en/download/find/file/sk814p>

- In-field firmware upgrade is now performed using SpringCard FUU application (instead of Renesas FDT).

Minor changes

- The default sequence of the yellow LED is slightly different, the blinking frequency of all LEDs is not exactly the same,
- The communication with the coupler is globally speaking a little faster,
- A complete polling sequence (FIND command with all protocols requested) takes a little longer due to the new protocols that are now supported.

New features

The CSB4.6 is able to communicate with these ISO 14443 cards/tags:

- Broadcom (Innovision) Topaz/Jewel (NFC Forum Type 2 Tag)
- FeliCa (read ID only), FeliCa Lite-S (NFC Forum Type 3 Tag)
- Inside Contactless PicoTag and HID iClass (read ID only)
- Kovio RF Barcode (read ID only)
- Atmel CryptoRF

The CSB4.6 generation are also able to communicate according to ISO 18092 (NFCIP-1), being initiator and using the passive communication mode only.

Remember that ISO 15693 support has been introduced in CSB4.4 (and was absent from all earlier versions).

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Improved features

- The CSB4.6 is qualified for a wider temperature range -20°C → +70°C (0°C → +70°C for CSB4.4)
- The CSB4.6 needs less electrical power. A smaller power supply could be used: 7.5 to 12V DC, 300mA (instead of 500mA).
- The read/write operations are globally speaking a little faster.

Removed features

The CSB4.6 is not able to communicate with these cards/tags (where the CSB4.4 was):

- ASK CTS256B and CTS512B (disposable contactless tickets using based on ISO 14443-2)
- NXP ICODE1 (replaced for years by ICODE-SLI, which is fully ISO 15693 and therefore fully supported).

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