

Prototyping Kit for Philips P8RF5000 and P8WE5000 series Smart Card Microcontrollers



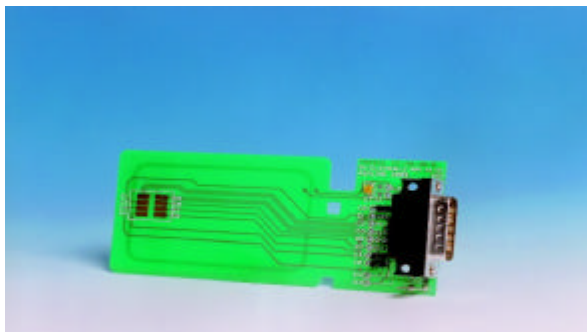
Ashling's Prototyping Kit for Smart Card (PKSC) is used to provide stand-alone device emulation for the Philips 8-bit Smart Card Families.

After testing and debugging a Smart Card program (using Ashling's Ultra-P8RF5000 in-circuit emulator, for example) the designer can download their Smart Card ROM code to the Ashling PKSC and test the code in a fully functioning card reader system. The Prototyping Kit will behave like the target Smart Card containing the actual ROM code.

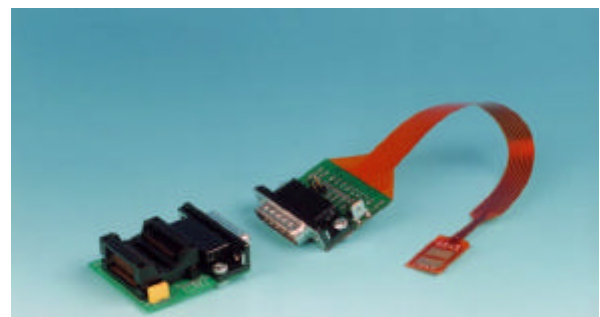
Two PKSC models are available to support both the Philips P8RF5000 (PKSC-P8RF5000) and Philips P8WE5000 (PKSC-P8WE5000) Smart Card Families.

PKSC Features

- Uses Philips Smart Card Emulation chip to ensure 100% accurate emulation of Smart Card operation
- Supplied PKSC-CFG PC program supports user program download to PKSC via PC's RS232 serial port
- PKSC LED's indicate status of the PKSC, the Target and the Emulation chip.
- The PKSC uses 512KByte flash for non-volatile storage of your downloaded application.
- Supplied with 6V universal power supply unit, RS232 cable and PKSC-CFG software
- Supports IN-CLA7816USB and SIM/GSM format interfaces. The PKSC has a 15 way D-Type connector allowing connection to either the **optional** Ashling IN-CLA7816USB or IN-GSM interface adapter boards as shown below:

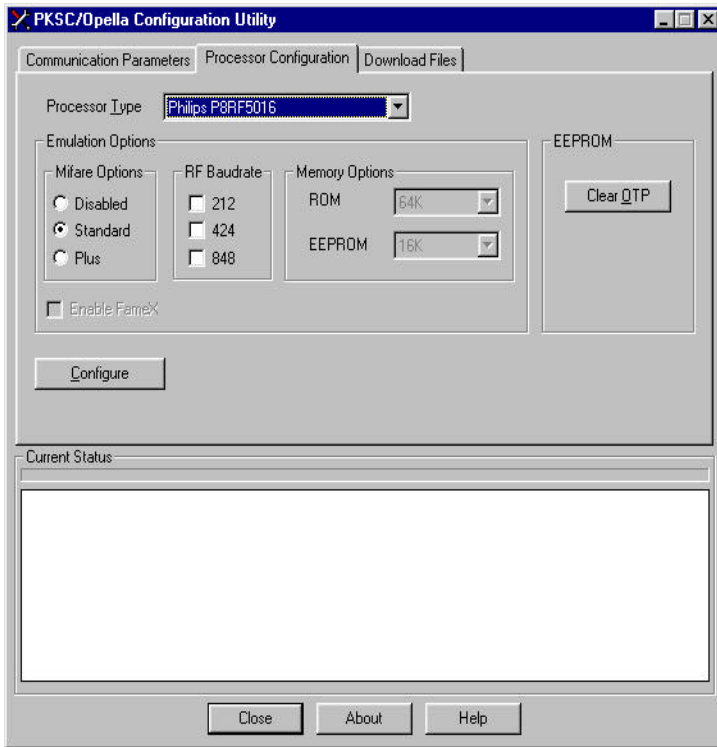


IN-CLA7816USB Interface adapter containing ISO7816 format contacts, USB interface *and* contactless antenna.



IN-GSM with IN-SO28
IN-GSM Interface adapter with SIM/GSM format contacts.

Please ensure you specifically order the appropriate interface for your application. By default, the PKSC is not supplied with an interface adapter.



Ashling's Prototyping Kit for Smart Card (PKSC) is supplied with the PKSC-CFG software program.

PKSC-CFG provides the following features:

- Configuration of the PKSC to support a wide range of different Philips Smart Card micro-controllers.
- PKSC-CFG supports multiple program download, thus facilitating Operating System and Applet development.
- Support for Intel-HEX and Ashling .CSO file formats.
- Converter utilities provided to convert all popular compiler formats (including KEIL).
- Full support for Banked Application download.
- Support for clearing of One-Time Programmable (OTP) EEPROM
- Full user manual and on-line help.

Device Support

Device	Product Part Number
P8RF5008, P8RF5016, P8RF6004, P8RF6008	PKSC-P8RF5000
P8WE5008, P8WE5016, P8WE5017, P8WE5032, P8WE5033, P8WE6002, P8WE6004, P8WE6008, P8WE6016, P8WE6017, P8WE6032, P8WE6016, P8WE6033	PKSC-P8WE5000

Optional Interface Adapters

Format	Part number	Description
ISO7816 (ID-1)	IN-CLA7816USB	Optional Probe Adapter for ISO7816 Smart Card contacts (ID-1 size), Contactless Antenna and USB contacts. Emulates physical size and connections of ISO7816 Smart Card.
GSM SIM or USIM (ID-000)	IN-GSM	Optional Probe Adapter for GSM and UMITS SIM/USIM (ID-000 size) Smart Card contacts. Emulates connections of ISO7816 Smart Card in ID-000 size.
S028 test die	IN-SO28	Adapter board with D15 connector and ZIF (Zero Insertion Force) SOIC28 socket, for testing of packaged engineering-samples of Smart Card ROM. Used together with IN-CLA7816USB or IN-GSM Probe Adapters.

DS211 V11

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