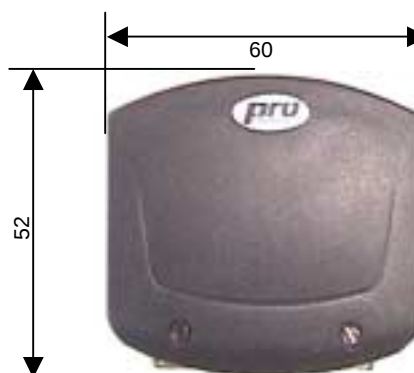


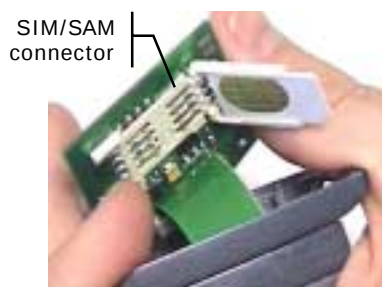
SC-CF02

PFTC020.doc
16/06/2003
Version : AA

DETAILED VIEWS



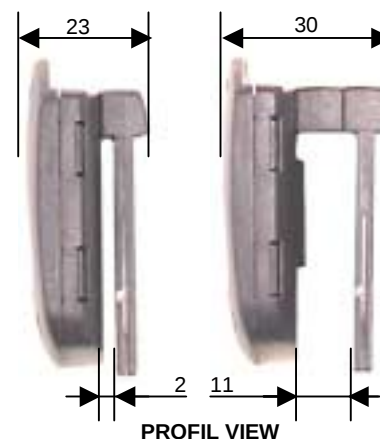
PERSPECTIVE VIEW



BACKBAG INSIDE VIEW



FACE VIEW



GENERAL SPECIFICATIONS

Description	SmartCard reader module for CompactFlash® enabled handhelds. → SmartCard reader → SIM/SAM reader
Consumptions	maximum : 5mA operation on smart cards : - ATR on Cryptoflex : 10mA - ATR on SHARP : 50mA - ATR on Oberthur : 12mA - ATR on FlashCOS : 20mA minimum : 2,7mA stand-by : 0,7mA
Temperature range	0°C → +45°C
Material	ABS-PP
Installation	Plug the module in the handheld CompactFlash® port. Plug and play detection as a serial port under the Microsoft® Windows® CE operating system (PocketPC 2000/2002, Windows® CE 4)
Implementation	API implementation as a DLL for the Microsoft® Windows® CE operating system for PocketPC 2000/2002, windows® CE 4.
Conformity	CE : EN50082/EN55022 class B
Dimensions	h : 52mm, l : 60mm, L : 23mm/30mm
Weight	40g

SMARTCARD & SIM/SAM SPECIFICATIONS

Handling	Insertion slot, internal SIM/SAM connector
Mechanical life	Insertion slot : 50,000 cycles
Chipset	Gemplus® GemCore®, MC100 & Analog Interface IC100
ISO compliance	ISO 7816-1 ISO 7816-2 ISO 7816-3 ISO 7816-4 T=0 & T=1 in 3V and/or in 5V
Software support	Standard Microsoft® Windows® API as "springcard.dll"

Information in this document is subject to change without notice. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of PRO ACTIVE.

ADVANCED DATA SHEET SC-CF02



Pro Active
Parc Gutenberg
13 VOIE LA CARDON
F-91120 PALAISEAU
France

Tél. : +33 164 532 010
Fax : +33 164 532 018

mail : info@pro-active.fr
web : www.pro-active.fr

S.A.R.L. with the capital of 15 252€
R.C.S. EVRY B 429 665 482
A.P.E. 722Z
VAT # : FR27 429 665 482 00015

The diagram illustrates the hardware architecture of the CompactFlash and BackBag boards. On the left, a vertical bar represents the **CompactFlash Port**. This port is connected to the **CompactFlash Board**, which contains a **UART VPU16551** and a **μC MC100**. The UART is connected to the microcontroller via **Rx** and **Tx** lines. The microcontroller is connected to the **BackBag Board** through a large, multi-ported interface. The **BackBag Board** features two **Interface IC100** chips. The top interface is connected to a **SIM/SAM** module, and the bottom interface is connected to a **SmartCard** module. Both modules are represented by icons of their respective physical forms.

Features	→ SpringCard®-CF core based on Gemplus microcontroller GemCore 1.32. → Smart cards interfaces based on Gemplus IC100 → PC-Card UART VPU16551 from Elan, providing PnP.
VPU16551	Versatile PC-Card UART → Built-in 512 bytes reprogrammable E ² for CIS. → Powered Supply voltage : 3V → Oscillation frequency : 14.7456MHz → Consumptions : Min : 1.40mA Max : 1.95mA Baud rate range : 300 → 921600

MC100 GemCoreLite Microcontroller

- Based on 80C51
- Powered Supply voltage : 3V
- Oscillation frequency : 10MHz
- Smartcard communication rate range :
9600 → 115200 Bauds
- Consumptions :
Normal operation: 4mA
Standby mode : 10µA

IC100 Gemplus analog interface

- Powered Supply voltage : 3V & 5V
- Consumptions : Power-down : 30µA

SpringCard, SpringProx, Smarty logo, PRO ACTIVE and the PRO ACTIVE logo are registered trademarks of PRO ACTIVE S.A.R.L. SpringCard-CF, SpringProx-CF are trademarks of PRO ACTIVE S.A.R.L. CompactFlash is a registered trademark of Compact Flash Association. Microsoft, Windows, Embedded Visual Basic, Embedded Visual C++ are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Gemplus and GemCore are registered trademarks of Gemplus. ELAN is a registered trademark of Elan Digital System Ltd.

Information in this document is subject to change without notice. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of PRO ACTIVE.

Pro Active
Parc Gutenberg
13 VOIE LA CARDON
F-91120 PALAISEAU
France

Tél. : +33 164 532 010
Fax : +33 164 532 018
mail : info@pro-active.fr
web : www.pro-active.fr

S.A.R.L. with the capital of 15 252€
R.C.S. EVRY B 429 665 482
A.P.E. 722Z
VAT # : FR27 429 665 482 00015