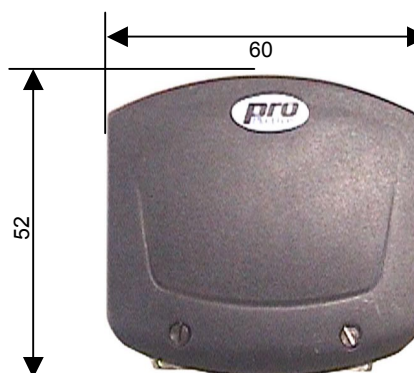
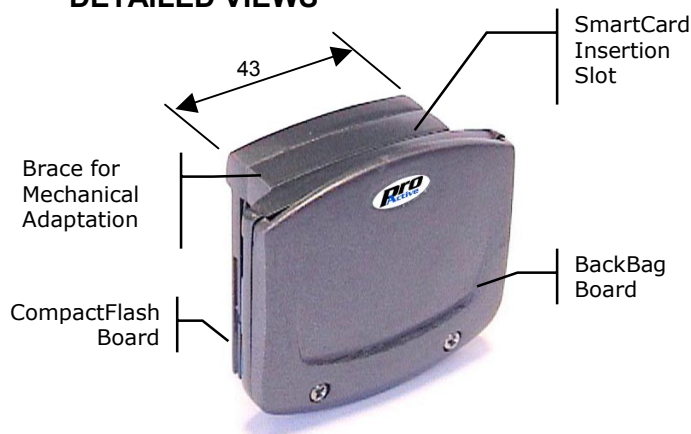


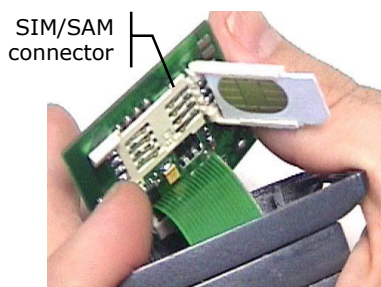
SC-CF04

pftc020-ab.doc
19/04/2005
Version : AB

DETAILED VIEWS



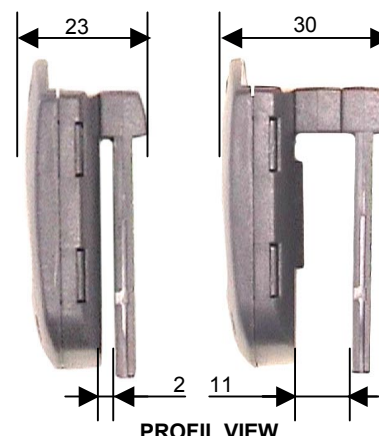
PERSPECTIVE VIEW



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 minimum
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"

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ADVANCED DATA SHEET SC-CF04



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The diagram illustrates the hardware architecture of the CompactFlash and BackBag boards. On the left, the **CompactFlash Board** contains a **UART VPU16551** connected to a **μC MC100** via **Rx** and **Tx** lines. The **CompactFlash Port** is connected to the UART. The **BackBag Board** features two **Interface IC100** components. The **μC MC100** is connected to both interfaces. The top interface is connected to a **SIM/SAM** module, and the bottom interface is connected to a **SmartCard** module. A large white arrow indicates the data flow from the CompactFlash Board to the BackBag Board.

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.

VPU16551Versatile PC-Card UART
→ Built-in 512 bytes reprogrammable E² 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

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