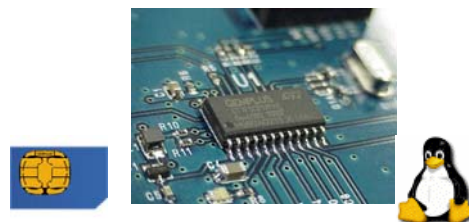




# Core SIM Pro

## The Universal Solution for multi-SIM Architectures !



### Overview

**Core SIM Pro** is the ultimate step in the smart card reader for multi-SIM (or multi-SAM) architectures.

Thanks to Gemalto know-how in OEM smart card readers and SIM cards, the GemCore technology now reaches the highest level of universality and SIM interface efficiency. As a **single chip product**, Core SIM Pro guarantees an easy design and validation thus an excellent time-to-market.

### Main advantages and benefits

- 2 SIM card interface capability
- Smart card transfer rate: up to 500 Kbps
- SIM power supply: 5V, 3V, 1.8V
- Full ISO and PC/SC Linux driver
- Short time-to-market thanks to efficient development tools and technical expert support

### Applications

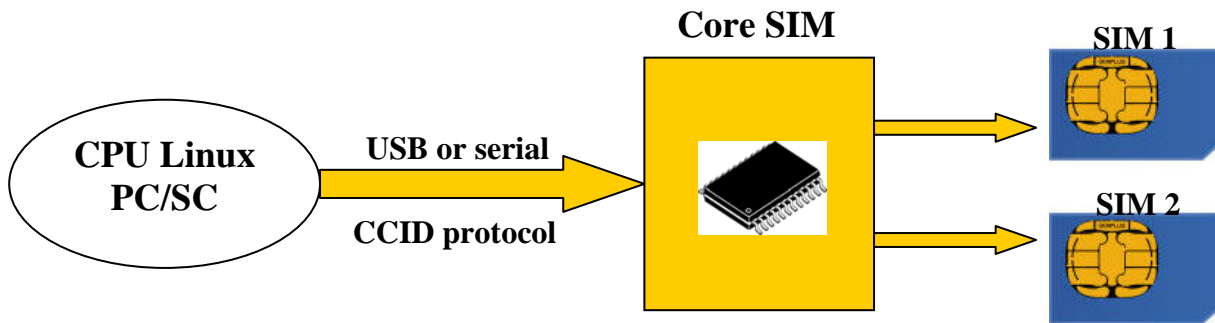
This GemCore solution is dedicated to multi-SIM card architectures such as telecom home devices.

### Compliance with standards

- |                                   |   |
|-----------------------------------|---|
| • <b>ISO/IEC 7816-1, 2, 3, 4:</b> | Integrated circuit cards with contacts              |
| • <b>RoHS:</b>                    | Restriction of Hazardous Substances (environmental) |
| • <b>USB &amp; CCID</b>           | Universal Serial Bus & Chip Card Interface Devices  |
| • <b>Linux &amp; PC/SC</b>        | Driver environment                                  |

## Technical features

The product is a single chip solution able to interface 2 SIM cards:



<b>Supported SIM cards</b>	Asynchronous	<ul style="list-style-type: none"> <li>Microprocessor cards</li> <li>T=0, T=1 protocols</li> <li>Transmission rate for CK = 4MHz:               <ul style="list-style-type: none"> <li>Up to 500 Kbps / slot 1</li> <li>Up to 125 Kbps / slot 2</li> </ul> </li> </ul>
<b>SIM electrical interface</b>	SIM card power supply	<ul style="list-style-type: none"> <li>1.8V, 3V, 5V 50mA (total for the 2 SIMs)</li> <li>Short circuit current limitation</li> <li>Power up / power down control sequences</li> </ul>
	ESD protection on card I/O	<ul style="list-style-type: none"> <li>4 KV Human Body Model</li> </ul>
<b>Core SIM chip power supply</b>	Voltage	<ul style="list-style-type: none"> <li>4.6 V to 5.4 V</li> </ul>
	Power down	<ul style="list-style-type: none"> <li>Less than 500 <math>\mu</math>A power down current</li> </ul>
<b>Host driver</b>	Linux kernels 2.4 & 2.6	<ul style="list-style-type: none"> <li>PC/SC compliant</li> <li>Full ISO7816</li> <li>PPS management</li> </ul>
<b>Serial Host interface</b>	Serial asynchronous link	<ul style="list-style-type: none"> <li>Transmission rate: 9.6 Kbps to 115 Kbps</li> <li>Format: 8 bits, no parity</li> <li>Auto baud rate</li> </ul>
	Communication protocol	<ul style="list-style-type: none"> <li>CCID V1.0 on serial TTL link</li> </ul>
<b>USB Host interface</b>	USB 2.0 compliant	<ul style="list-style-type: none"> <li>CCID V1.0</li> <li>Full speed 12MHz hubless</li> </ul>
<b>Other features</b>	Temperature range	<ul style="list-style-type: none"> <li>Operating range: 0°C to +70°C</li> <li>Storage range: -65°C to +150°C</li> </ul>
	Packaging and environmental	<ul style="list-style-type: none"> <li>SO24: sticks of 32 units in boxes of 25 sticks</li> <li>RoHS compliant</li> </ul>