

BD-1100-04-4SIM - BD-1100-07-R



## Managing GSM communications

VoiSmart® vGSM-II card is a PCI adapter capable of making GSM network services available to the hosting system. It may be used in several applications: voice, data and SMS gateways, SMS interactive systems, remote control, etc... This board allows systems integrators to transform highly priced fixed to mobile voice traffic into a much cheaper mobile to mobile call management, with considerable savings. No external gateways needed in your asterisk PBX. 100% compatible with EU and US GSM networks (900 / 1800 / 1900 Mhz) and with Brazil and Japan networks. VoiSmart® vGSM-II is a complete redesign of the vGSM card with improved functionalities and performance, in particular it supports full digital audio handling, SIM routing and remotization, an additional physical serial port for each module, several signalling LEDs and much more. The card can host GSM-R modules, specially used for railways companies applications.

### Features at a glance

- Two or four MC55 or MC56 Siemens GSM modules / GSM
- PCI v2.2, 5V or 3.3V signaling
- Dimensions: 145mm x 107mm (PCB) , 157mm x 132mm including SIM holder, bracket and connectors

- Little-endian and big-endian modes directly implemented in hardware.
- Output power: Class 4 (2 watt) in EGSM900/EGSM850/GSM-R, Class 1 (1 watt) in PCS1800/PCS1900/GSM1800/GSM1900.
- 100% Linux/Asterisk Compatible
- Antenna connectors: 2 or 4 female SMA 50 Ω.
- Two independent serial ports to each GSM module
- Hot swappable SIM holders
- Full-mesh hardware cross-connection between modules, SIMs and SIM UARTs
- Programmable clock generator with 3.5712, 4, 5, 7.1424, 8, 10, 14.28, 16 and 20 MHz outputs
- 3.0V and 1.8V SIMs supported
- 2048 bytes RX and TX FIFOs for improved jitter tolerance
- Hardware A-law and μ-law companders/decompanders available on each FIFO
- 26 LEDs for extensive monitoring of modules and card's state
- LED security (data cannot be easily extracted from the LED light output)
- Operating temperature: -20 °C to +45 °C
- Storage temperature: -40 °C to +85 °C

For further information and updates:  
<http://open.voismart.it>

VoiSmart® products are developed and distributed by  
Espia srl - Via Pascoli 37, 20129 Milano

VoiSmart and the VoiSmart logo are registered trademarks of Espia srl. All other trademarks are held by their respective owners. Specifications and information are subject to change without notice. Every effort is made to ensure the accuracy of this document. However, due to ongoing product improvement and revisions, Espia srl cannot guarantee its accuracy, nor can it accept responsibility for errors and omissions. Images are indicative only, products may change.