



ZS CONTROL CORP

## CALLS CONTROL SYSTEM MODEL ZSSMX2®

**Special for penitentiaries, military locations and in general places where permanent supervision and/or local nets are not possible.**

Module Image



### FEATURES

- Operates with low cost, personal identification code, hardware secured, no minimum value, rechargeable and non transferable smart cards.
- Extended fraud protection with proprietary dynamic 256 bits encryption, which makes virtually impossible to duplicate cards or modify reports.
- Wired, wireless and cellular phone lines compatible.
- Very fast calling procedure. No previous codes or pins. Only the insertion of the card is required to make one or several consecutive calls.
- Highly modular architecture with independent modules or communication units "CU" (See photo), that control and monitor the whole call process.
- **Independent hardware control in each module.** Stand-alone operation with no need for external parameters or instructions, which makes the system fast and highly reliable and efficient.
- High speed daisy chained single cable RS485 interface to interconnect the units and a computer.
- Up to 256 units per system can be used for very few or thousands of users with no extra costs, as it does not require expensive local nets or platforms.
- Exclusive and programmable high security portable console model ZSMXCC®, to initialize, issue, modify and read user's and report's smart cards, with a 20 keys keypad, illuminated LCD display and USB interface to connect a computer (Not included).
- RS485 to USB converter box to allow the computer program to communicate with each unit.
- No-cost computer program to communicate with the ZSMXCC console, configure the modules and collect the reports. Win9x, 2000, XP and Vista compatible.



MODULE DESCRIPTION

- ❖ Control of three (3) phone lines with automatic selection of the line with the lowest rate for the call.
- ❖ Background dialing with complete call progress tones generation and automatic number modification to comply with selected operator's requirements.
- ❖ Two sets of 320 programmable rates each for cellular, local, national and international calls with automatic switching at a preset time.
- ❖ Independent and programmable area codes, country codes, pbx and operator's codes or prefixes, as well as replacement digits strings and tax percentage for each set of rates.
- ❖ Up to 128 programmable restricted phone numbers.
- ❖ Automatic storage of the information for the last 3000 calls, including user's ID, dialed number, line used, price per minute, tax applied, card balance, total charged, etc.
- ❖ Reports collection through the RS485 interface and/or locally with smart cards.
- ❖ Ultra fast configuration loading through the RS485 interface and/or locally with smart cards.
- ❖ Built-in RS485 interface.
- ❖ Built-in telephone for highly noisy environments, with digital volume control and optical hang on/off detection for unlimited operations.
- ❖ Built-in smart card reader/writer.
- ❖ Flat capacitive sensing tactile keypad with 3 mm polycarbonate overlay for intensive use and long life operation.
- ❖ Illuminated LCD display, protected with 3 mm polycarbonate overlay, to display number dialed, rate value, card balance, charged value and call duration.
- ❖ Real time clock calendar with independent battery backup. 5 MB flash memory. Inductive coupling DAA with 4500 Volts isolation minimum. Solid state relays for noiseless operation. Last generation components, UL and CSA approved minimum.
- ❖ Stainless steel cold rolled housing with heavy duty handset and armored cord to sustain 450 Kg pull strength.
- ❖ Battery backup with charger and rechargeable battery for 8 hours minimum of continuous operation.

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYP	MAX	UNITS
Supply voltage	7	8	9	Volts
Supply Current	50	100	200	mA
Operating temperature	-5	25	60	Degrees Celsius
Impedance to telephone line		600		$\Omega$
Resistance to telephone line	1M			$\Omega$
Isolation from telephone line (Inductive coupling)	4500			Volts
Electrical isolation	4500			Volts
On-hook telephone line voltage	24	48	60	Volts D.C.