ZS CONTROL CORP

CALLS CONTROL SYSTEM
MODEL ZSSMX4®

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

System Description

◆ Leading edge technology.

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

◆ Fingerprint Recognition.

◆ Smart card operation with fingerprint user's template in card. This effectively allows an unlimited number of users.

◆ Personal non transferable smart cards with personal identification code, hardware secured, no minimum value and rechargeable up to 500,000 times.

◆ 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 (See photo), that control, monitor and save locally 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, highly reliable and efficient.

◆ From 1 to 2048 **Modules** per system that can be used for very few or thousands of users with no extra costs, as it does not require expensive local nets or platforms.

◆ Remote Internet configuration and reports collection.

◆ Exclusive and programmable high security portable console model ZSSMX3CC® to initialize, issue, modify and read users smart cards. With a 20 keys keypad, illuminated LCD graphic display and USB interface to connect to a computer (Not included).

◆ Free computer programs to configure the modules and collect the reports via Internet, and to communicate with the ZSSMX3CC console. XP and Windows 7 compatible.

Module Description

◆ Built-in Smart Card reader.

◆ Built-in Fingerprint Recognition module.

◆ Built-in wireless modem for Internet connection.

◆ Built-in cellular Fixed Wireless Terminal (FWT). Quad band 850/900/1800/1900 MHZ (See FWT description below).

◆ Built -in 2 wires FXS (Foreign eXchange Subscriber) interface for analog phone or PBX, with 48 Volts current supply, call progress tones generation, dialed number capture and background DTMF dialing

◆ Built-in 10 MB flash memory for call reports storage, with eight (8) years data retention minimum.

- Built-in telephone for highly noisy environments, with digital volume control and optical hang on/off detection for unlimited operations.

- USB interface for memory stick.

- Up to 256 programmable restricted phone numbers.

- Automatic storage of the last 25000 calls details including user's identification, dialed number, line used, price per minute, tax applied, card balance, total charged, time and date, etc.

  This information can be used to easily identify the authors of calls with criminal purposes, especially with fingerprint recognition as it can be used as a proof in a court of law.

- Configuration via Internet

- Reports downloading via Internet or locally to a USB memory stick (2 included).

- Flat capacitive sensing tactile keypad with 3 mm transparent polycarbonate overlay for intensive use and long life operation.

- Illuminated graphic LCD 128x128 color display, protected with 3 mm polycarbonate overlay, to display number dialed, rate value, card balance, charged value, call duration and any other relevant information.

- Real time clock calendar with independent battery backup. 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 24 hours minimum of continuous operation.

What is a Fixed Wireless Terminal? A Fixed Wireless Terminal (FWT) is best described as a base station mobile phone. It enables connection of landline devices such as a telephone handset, fax machine or computer and transmits using the mobile phone networks. Being completely wireless, a Fixed Wireless Terminal is often used in situations where traditional landline infrastructure is not available. The unit takes any standard GSM SIM card and sends all calls over ANY available cellular network, allowing users to make voice calls.

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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		Ω
Resistance to telephone line	1M			Ω
Isolation from telephone line (Inductive coupling)	4500			Volts
Electrical isolation	4500			Volts
On-hook telephone line voltage	24	48	60	Volts D.C.