ITEM	DESCRIPTION
Controller Model	SAC7000
Micro Controller	RCM4310 RabbitCore
Operating Frequency	58.98MHz
Real Time Clock	Yes
Program Memory	1MB Flash and 512KB Fast SRAM Program Execution
Data Memory / RAM	512KB SRAM and 2GB microSD/SD Card
Battery Backup for Memory	Nicd 3.6VDC Onboard Backup Battery
Max Card Holder Capacity	20,000 (up to 10,000,000 Card Holder)
Max Event Transaction	100,000 Card Transaction
Communication Ports	- 1 x 10/100 Based-T Ethernet - 1 x USB port up to 1 Mbps - 2 x RS232 up to 7 Mbps - 1 x selectable RS232/485 (RS232 – up to 7 Mbps, RS485 – up to 7 Mbps).
i) Baud Rate (Controller to Host) ii) Baud Rate (Controller to Reader)	- 38.4 kpbs (RS485) and10/100Mbps (TCP-IP) - Up to 115.2 kbps
Controller I/O	- 1 Door Sensor - 1 Exit Push Button Input - 3 Tamper Switch Input - 1 Locking Mechanism - 1 Siren Output
Controller Display Unit / Keypad	16 x 2 LCD Backlight / 4 x 4 Keypad
Multi-Door Anti-Passback	Function Available - Global, Local & Forgive Anti-Passback
Sound Indicator (Buzzer)	Door Ajar
Time Zone	Unlimited Time Zone with 5 Time Set per each
Communication Cable Type	Recommended BELDEN 24AWG 1419A / UTP Cat 5e
Max Length of Communication	1 Km (RS485) / 100m (UTP Cat 5e)
Address Setting	Web Server Configuring Setting
Guard Tour Mode	Function Available
Duress Alarm	Function Available
Watchdog	Yes
Electrical and Physical	- Operating Voltage of 12VDC - Operating Current of 60mA - Wall Mounting Casing - 2mm ABS-PC (polycarbonate) Casing - Dimension 120(H) x 140(W) x 29.5
Humidity	10% to 90% Non-condensing
Card Format Support	Mifare, Legic, Mifare DesFire & Radio Frequency Identification Reader
Operation Temperature	-20°c to 85°c
Remote & Poll Controller via Web Server	- IP Address Configuration - ID Configuration - Time Syncronization - Output Activation - Reset Controller - View Transaction or Card ID - Poll the Controller Health Status - Poll The Status of Controller I/O

For Further Information, please contact

SAC7000

Security Access Controller

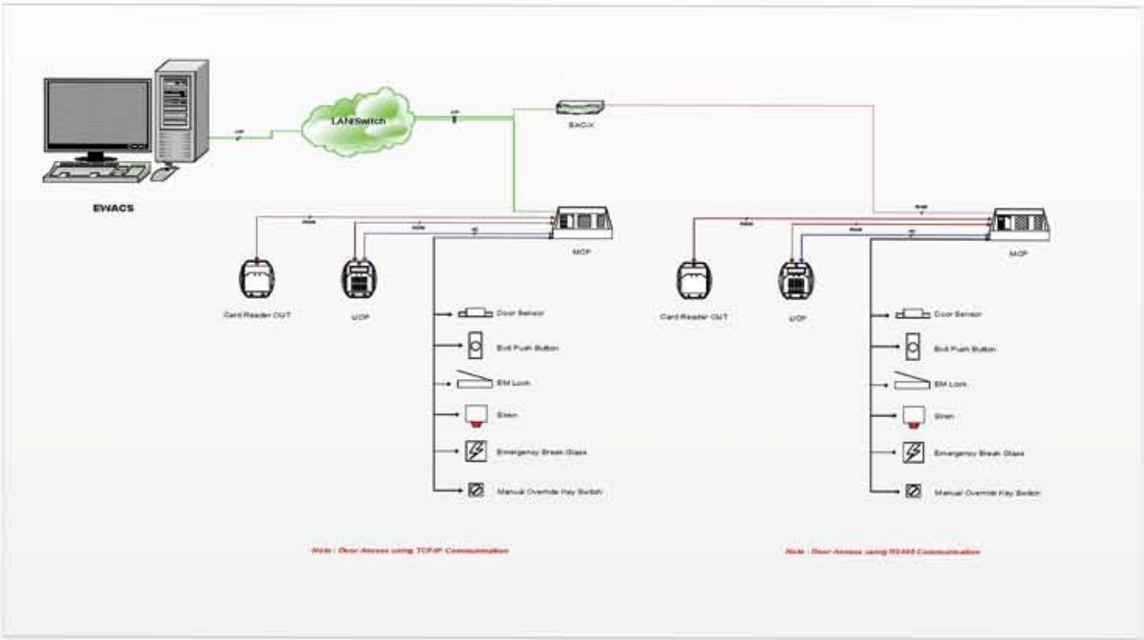
SAC7000 is IBS latest generation access controller that can be used for various applications. It is designed with better memory performance to cater for higher number for card holder and off line transactions. Its capability to cater for Ethernet communication makes it more desirable in the access control and security market whereby TCPIP architecture is highly sought after. However, it is still able to support standard RS485 communication.

SAC7000 comes in a package that is designed to maintain its aesthetic value and most importantly to maintain its compactness and stay economical. SAC7000 consists 2 major parts which are the Main Control Panel (MCP) and User Control Panel (UCP). The MCP comprise of SAC7000 Main Board, Power Supply, Battery Backup and Casing Battery Backup whilst the UCP comprise of SAC7000RIF, LCD, Keypad, Casing, and Reader-In. Both MCP and UCP are combined to form a robust controller designed by our in-house engineer.

KEY FEATURES

Card Reader Interface	Mifare, Legic,and Radio Frequency Identification (RFID) Reader, Mifare DesFire
High Number of Card Holder	20,000 (up to 10,000,000 Card Holder)
High Number of Off-Line Transaction	100,000 Card Transaction
High Number of Blacklist ID	10,000 Blacklist ID (Up to 5,000,000 Blacklist ID)
Multimode Operation	Card Only, Card and Pin
Anti-Pass Back	Global, Local and Forgive Anti-Pass Back
High Security	Door Force Open, Duress Entrance and Door Ajar
Alarm Output	Siren and Strobe Light
Interface with various Locking Mechanicsm	Electromagnetic Lock, Door Striker, Parking Barrier, Roller Shutter, Optical Sensor, Boom Gate,Pedestrian Barrier
Various Mode Of Operation	Fully TCP/IP Connectivitiy, Fully RS485 Connectivity, A Hybrid of TCP/IP and RS485
Ethernet Connectivity	Remote Configuration and Monitoring via Web Server

SYSTEM DIAGRAM



UPHOLDING RELIABILITY AND INTEGRITY OF ACCESS CONTROL AND SECURITY

It is important to ensure that you choose the right controller for your access and security network. The SAC7000 is reliable, consistent and unfailing to ensure that it is able to make countless decisions on access attempts in real-time.

Our SAC7000 processes all events locally, independent of the central monitoring software. This ensures system integrity even when there is a communications failure with the EWACS.

SAC7000 has a built in tamper input that can be used to detect if the unit has been opened. It provides an alarm output to visually or audibly sound an alarm when security has been breached. During those times of power failure, SAC7000 is equipped with a battery backup that will support the unit.

SUPPORT MULTIPLE READER STANDARDS

SAC7000 is able to cater for various reader standards such as Mifare, LEGIC, Mifare DesFire and other RFID standards. (125 KHz, 13.56 MHz, 900MHz and 2.45 GHz operating frequenacy.)

This allows user to select the standard that meets their intended operation or if they are currently using the card for other applications. The communication interface for SAC7000 to the readers is through RS232 logic serial communication.

MANAGES HIGH SPEED TRAFFIC AND EXPANSION

SAC7000 an advanced and intelligent controller capable of handling high volume, high-speed traffic with IBS Enterprise Web-Based Access Control and Security System (EWACS3000). It has an expandable modular design whereby multiple SAC7000 can be connected via Ethernet to the EWACS.

SAC7000 retains many of the capabilities of SAC5000 and can be programmed remotely or through its own interface. Some of the other features of SAC7000 is its added security by automatically switching from network mode to stand-alone mode should the network become unavailable for any reason.

REMOTE CONFIGURATION AND MONITORING

Another powerful feature of SAC7000 is its ability to be configured and monitored remotely via web browser through the Ethernet connectivity. This makes diagnostics to be done remotely thus allowing efficient and faster maintenance and troubleshooting. Readers can be updated remotely from the server to facilitate any changes or updates on the access configurations.