

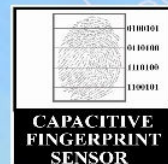
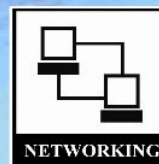
Multi-Door Access System

SCAN-X



S-Series

CASTLE® presents you its latest Access Control System - SCAN-X. The SCAN-X is robust in appearance and is embedded with the cap-sensing technology sensor. With this, the safety has gone up and therefore, you worry less about intruders and its kind in your organization.



*Specifications are subject to change without prior notice.

Capacitive Fingerprint Sensor



High definition sensing

High definition sensing captures the highest quality images for secure authentication and a convenient user experience.

Capacitive Sensing

It measure feedback capacitance determined by the presence of 3-dimensional ridges and valleys of a fingerprint.

Active Pixel Sensing

Each pixel has its own amplifier for crisp, detailed images.

Live Layer Sensing

It sense both the surface and the subsurface, or "live layer", of the skin.

Large Image Area

It scan larger finger areas to enable more accurate authentication and a more accommodating user experience.

Features & Benefits

- 🔒 Stylish Robust Design.
- 🔒 Capacitive Fingerprint Sensor.
- 🔒 Simple Operation Mode : Fingerprint, Smart Card and Pin.
- 🔒 Suitable for low-to-medium premises.
- 🔒 Operates in Standalone & Network modes.
- 🔒 Real time system update & configuration.

S-Series

Networking

Door Access



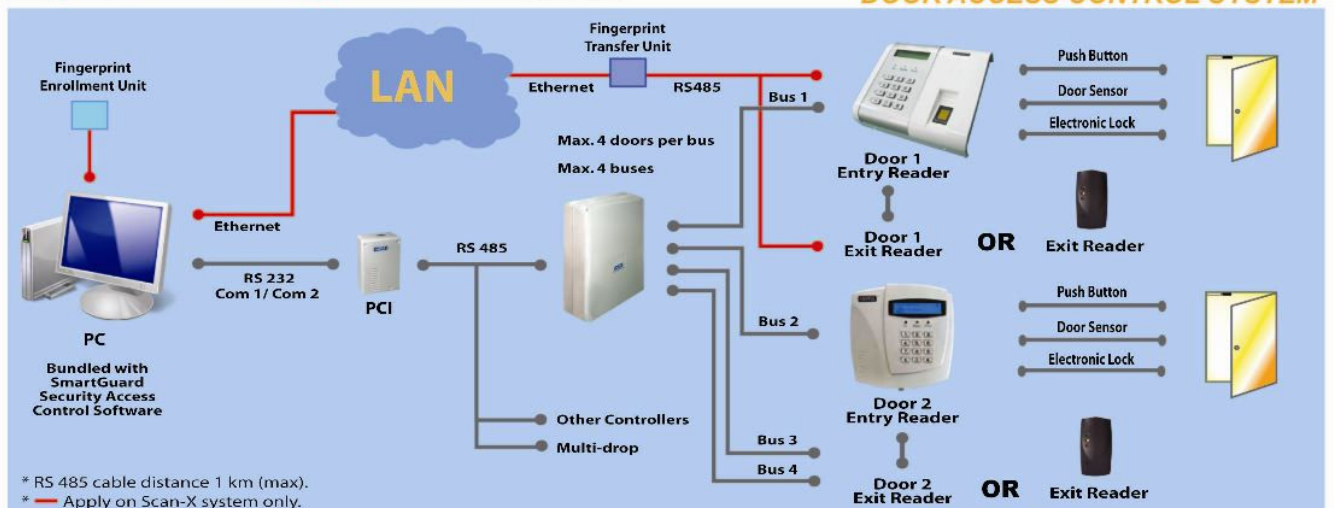
Technical Specification

CONTROLLER	
Microprocessor Models	Philips PXA 8051
Operating Frequency	24 MHz
Clock System	Real-time clock
EPROM/ Flash	128K Bytes
RAM	1 M Bytes
Watchdog	1 Internal and 1 external
Battery Back-up for Memory	3.6V onboard rechargeable backup battery
Type of Storage System Used	Static RAM
Operating Temperature Range	0-65 °C
Baud Rate	9600 (Controller to reader), 2400 (PC to controller)
Controller Display Unit	20 Characters x 2 rows liquid crystal display with back-light
Maximum Storage Capability	10,000 cards user and 30,000 transactions
Communication Cable Used	1 Pair RS-485 from reader to fingerprint transfer unit 1 Pair RS-485 from reader to controller for each bus 1 Pair RS-485 from controller to PCI
Maximum Length of Communication	1 KM (cable length)
Recommended Cable Type	RS485 shielded twisted pair (Belden 1419A)
Input Voltage	12V DC
Input Voltage Tolerance	11V-13.8 V DC
Rated Current Input	1A
Number of Controllers Supported	16 or 32 Controllers (depends on software version)
Number of Readers Supported	16 Doors 32 Readers (depends on controller types)
Reader Supported	-HID, Proximity, Contact-Less & Smart Card -Fingerprint (Capacitive Sensor)
Reader Format Supported	-Magnetic signal -Wiegand 26 bits
Controller Housing	ABS casing
Time Sets	256 time sets (3 intervals per zone)
Time Zone	256 time zone (7 days +2 Holidays per zone)
User Accessibility	256 set
Support Multi-Door and Anti-pass Back	Yes
Holidays	60 dates programmable holiday
Controller Programming Mode Security	3 Level of Passwords: Diagnostic, Alarm & Programming
Software Requirements (Recommended Configurations)	Window 98/2000/ME/XP & Vista Pentium 4, 256MB RAM, 10GB Hard Disk and Display 1024 x 768 resolutions
Diagnostic Systems	Yes
Programming Mode	Menu driven programming & software programming
Fire Alarm Input	Yes
Relay Output	-Auxiliary Relay Output (20 type programmable events) -General Purpose Output (Time Zone Control Output)

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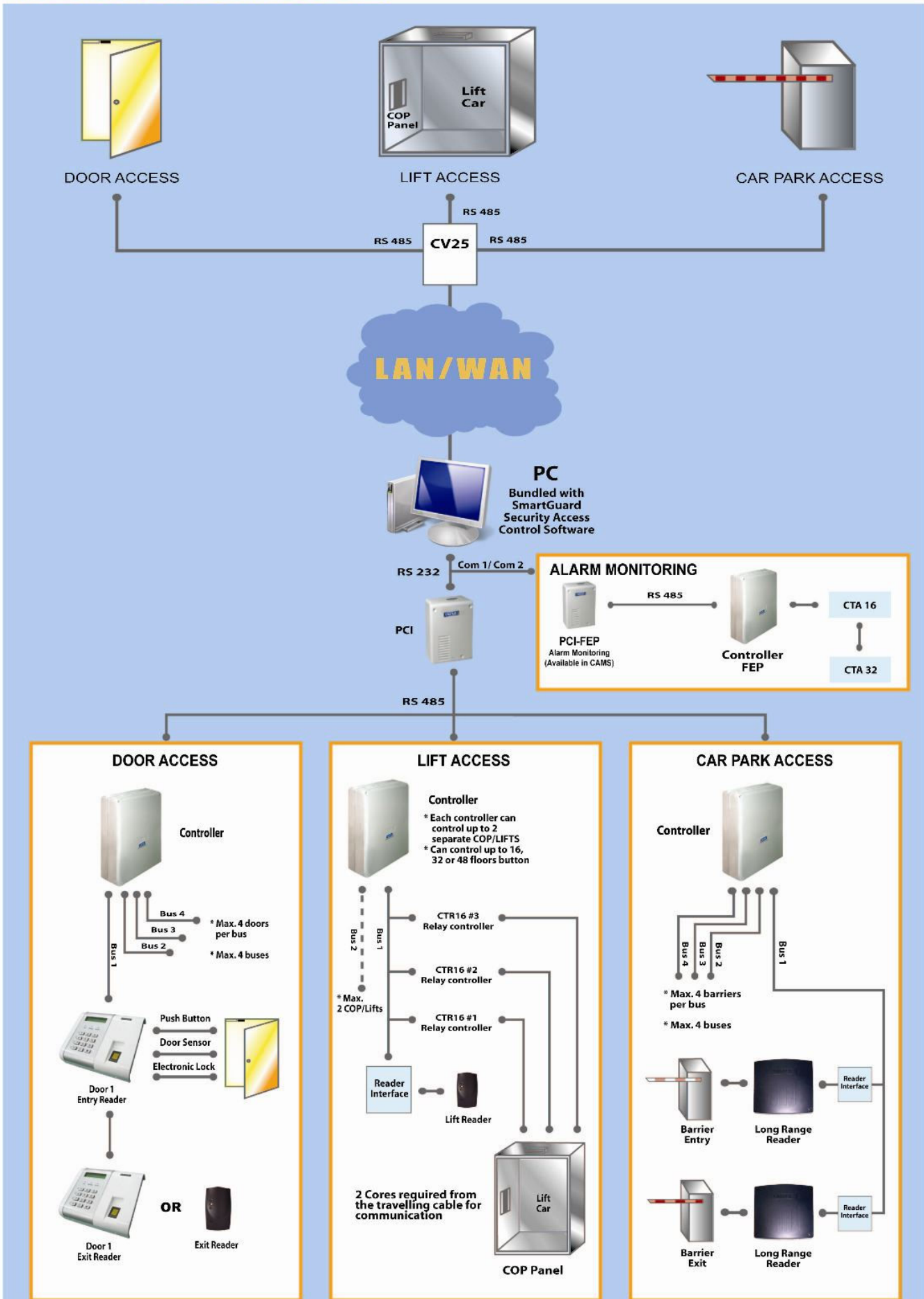
System Configuration

DOOR ACCESS CONTROL SYSTEM




System Configuration

INTEGRATED ACCESS CONTROL SYSTEM








Ordering Information

CONTROLLER	STOCK CODE	DESCRIPTION
 <p>Dimension: 291H x 194W x 81D mm</p>	CAS-2S	2 doors controller
	CAS-4S	4 doors controller
	CAS-8S	8 doors controller
	CAS-12S	12 doors controller
	CAS-16S	16 doors controller

RECOMMENDED ACCESSORIES

STOCK CODE	DESCRIPTION
Platinum kit	3A/ 13.8Vdc power supply unit with battery charger
600LB	12Vdc, 600lbs electric magnetic lock
Bat7	7AH sealed lead acid rechargeable battery
Communication Cable	Belden RS 485 cable
EBG / MSC	Emergency break glass/ Magnetic contact

READER	STOCK CODE	DESCRIPTION
 <p>Dimension: 174H x 167W x 38D mm</p>	PRO-NDT	Proximity reader c/w 12 keys polycarbonate keypad, reader interface unit & ABS casing with blue LCD (Format: Magnetic signal)
	PRO-NDH	HID proximity reader c/w 12 keys polycarbonate keypad, reader interface unit & ABS casing with blue LCD (Format: Wiegand 26 bits)
	CAS-IC	Contact-less smart card reader (Mifare card serial number) c/w 12 keys polycarbonate keypad, reader interface unit & ABS casing with blue LCD (Format: Magnetic Signal)
 <p>Dimension: 154H x 168W x 39D mm</p>	SCAN-X	Proximity reader c/w 12 keys polycarbonate keypad, reader interface unit, ABS casing with blue LCD & with capacitive fingerprint sensor. (Format: Wiegand 26 bits)
	SCAN-IC	Contact-less smart card reader (Mifare card serial number) c/w 12 keys polycarbonate keypad, reader interface unit, ABS casing with blue LCD & with capacitive fingerprint sensor. (Format: Wiegand 26 bits)

OTHER COMPONENTS	STOCK CODE	DESCRIPTION
 <p>Dimension: 174H x 167W x 38D mm</p>	PCI-STD	PC-interface unit c/w SmartGuard Standard software. 16 controller version. Able to manage door/ car park access.
	PCI-PRO	PC-interface unit c/w SmartGuard Pro software. 16 controller version. Able to manage door/ lift/ car park access.
	PCI-PRORM	PC-interface unit c/w SmartGuard Pro multiple site remote monitoring software. 16 controller version. Able to manage door/ lift/ car park access.
 <p>Dimension: 226H x 151W x 50D mm</p>	PCI-RMAGN	PC-interface unit c/w remote program data collector.
	PCI-C/S-1A	PC-interface unit c/w Smart Guard Client-Server software. 16 controllers version. Able to manage door/ lift/ car park access.
	PCI-C/S-2A	PC-interface unit c/w Smart Guard Client-Server software. 32 controllers version. Able to manage door/ lift/ car park access.
	PCI-C/S-RM1A	PC-interface unit c/w Smart Guard Client-Server remote software. 16 controllers version. Able to manage door/ lift/ car park access.
 <p>Length: 1800 mm</p>	CAS-OCX	PC-interface unit c/w Software development kit to communicate with CASTLE® S-Series controller.
	CV2588	RS 485 to LAN converter. (UTP Ethernet 10 base T with TCP/IP protocol)
	USB COM	USB to COM port converter.
	TU-2 / TU-4	RS 485 to LAN Converter. (Fingerprint Transfer Unit)
	EU	Fingerprint enrollment unit

SmartGuard Standard comes with the entire standard feature which is sufficient for managing CASTLE access control systems and built-in simple daily Time Attendance reporting.

SmartGuard Pro comes with all the features found in SmartGuard Standard version plus many enhanced features such as record, edit and generate time attendance reports, as well as personalization, manages lift access controller and etc.

SmartGuard Pro-Remote can monitor and control up to a maximum of 256 doors. The controlling can also be done on the controller itself. The users can remotely perform a wide range of supervisory, control and monitoring function centrally for one computer, hence simplifying the jobs of the system administration. All the controllers are linked to the PC where the software resides in. SmartGuard Agent acts as gateway between the SmartGuard Pro Remote and the Remote control which runs on Win9X or WinNT. It communicates with SmartGuard Pro Remote through TCP/IP and CASTLE Controller through comm port (RS485).

SmartGuard Client-Server networking capabilities. Software user can perform the entire normal task on the remote PC just like on the same PC. Therefore, software user can remotely monitor, change and even generate reports without having to go to the PC where the controller is attached. In addition, it allows up to 3 software users to access the system at the same time. The networking system is based on the Windows Socket Communication Systems. The software package bundled with database server, a communication server and the client software at a very cost-effective price for implementing such system.

SmartGuard series software runs on: Win 98, 2000, ME, XP & Vista

For more information, please visit our website <http://www.castle.com.my>



TOTAL SECURITY SOLUTION

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