Networking Door Access (S-Series)

Technical Specifications

Controller Models	S-Series - 2/4/8 doors per controller (CAS-2S/4S/8S) Advanced - Series -12/16 doors per controller (CAS-12S/16S)
Microprocessor Model	Motorola 68HC11MCU
Operating Frequency	S-Series: 8 MHz Advanced-Series: 12 MHz
Clock System	Real-Time
EPROM / Flash	S-Series 64K Bytes / 128K Bytes Advanced-Series 128K Bytes
RAM	S-Series: 128K Bytes Advanced-Series: 1M 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)
Stop Bits	1
Data Bits	8
Maximum Storage Capability	S-Series: 5,000 cards user and 2,500 transactions Advanced-Series : 5,000 cards user and 50,000 transactions
Input Voltage	12V DC
Input Voltage Tolerance	11V-13.8V DC
Rated Current Input	1A
Number of Controllers Can Be Connected	16 or 32 Controllers (Depends on software version)
Number of Readers Can Be Connected	S-Series: 4/8/16 readers (Depends on Controller Types) Advanced-Series: 24/32 readers (Depends on Controller Types)
Type of Reader Technology	-Contact-less Smart Card -Wiegand 26 bits / Magnetic Signal -Magnetic Stripe Track 2, ABA Format -Barcode 2/5 or 3/9 format
Type of Usage	Stand-Alone (Reader to Controller) Network-Operated (Reader to Controller to PC)
Communication Cable Used	1 Pair RS-485 from Reader to Controller for each bus 1 Pair RS-485 from Controller to PCI-Interface
Maximum Length of Communication	1 km (Cable Length)
Recommended Cable Type	BELDEN Cable 24AWG Standard 1419 A
Housing	Metal Casing with Tubular Cam Lock and coated with epoxy to prevent vandalism
Alarm Features	S-Series: 4 digital inputs points & 1 relay output Advanced-Series: 7 inputs point & 1 fire alarm Alarm Arming/Disarming can be manually controlled or timer controlled
Timer	S-Series: 100 Timer Sets with 3 Intervals Advanced-Series: 256 Timer Sets with 3 Intervals
Time Zone	S-Series: 100 user Time Zone (9 days/time zone) Advanced-Series: 256 user Time Zone (9 days/time zone)
Support Multi-Door and Anti-Pass Back	Function available for S-Series and Advanced-Series
Holidays	2 types of 30 dates Progammable Holiday
Controller Programming Mode Security	3 Passwords: (no access card needed) *Technical Password - Diagnostics only * User Password - Arming & Disarming only * Master Password - Highest Privilege
Continuous Card Swiping Facility When Door Is Open	Function Available
Controller Display Unit	20 characters x 2 rows Liquid Crystal Display with back-light
Software Requirements (Recommended Configurations)	Run on Window 95/98/NT/Millenium Edition or Compatible Pentium II, 64MB RAM, 10GB Hard Disk and Display 800 x 600 resolution
Diagnostic Systems	Built-In Diagnostics
Indications	Sound Indication When Release Button Is Pushed, Door Left Open And Force Open
Programming Mode	Menu Driven Programming & Software Programming
Log File Supporting Through Software	Function Available
Auxiliary Relay Output	20 Type Programmable Event (Applicable for K-Series & Advanced-Series Only)
Interlocking Capability	Function Available Between Any Pair of Door (Applicable for N-Series Only)

Model / Features	Control up to	Card Strorage	Events transaction	Time sets (3 intervasl each)	TimeZone (7 days+2 holidays / time zone)	User accessibility
CENTURION CAS-1S	1 door	2,500	2,500	50	50	50
S-SERIES CAS-2S / 4S / 8S	2/4/8 door	5000	2,500	100	100	100
ADVANCED-SERIES CAS-12S	12 doors	5,000	50,000	256	256	256
CAS-16S	16 doors	5,000	50,000	256	256	256

Ordering Information

Controller
(S-Series)

Stock code	Description
CAS-2S	2-doors controller
CAS-4S	4-doors controller
CAS-8S	8-doors controller

Dimensions :
248H x 185W x 42D mm

(Advanced Series)

Stock code	Description
CAS-12S	12-doors controller
CAS-16S	16-doors controller

Dimensions :
310H x 220W x 55D mm

Reader

Dimensions :
170H x 185W x 35D mm

Stock code	Description
PRO-NDT	Proximity reader c/w 12 keys polycarbonate key-pad 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-MSN26	Contact-less smart card reader (Mifare Card **Serial Number) c/w 12 keys polycarbonate key-**pad, reader interface unit & ABS casing with blue LCD (Format : Wiegand 26 bits)
PRO-4SM-T	Proximity reader c/w 12 keys polycarbonate key-pad, reader interface unit & metal casing.(Format : Magnetic Signal)

Recommended Accessories

Stock code	Description
CPC30	3A/13.8Vdc power supply unit with battery charger
CLP-22-2W	RS485 lightning / surge arrestor (2 wires)
600LB	12Vdc,600lbs electric magnetic lock
Bat7	7AH sealed lead acid rechargeable battery
Communication Cable	Belden 1419

For a full accomplishment of CE marking for door access system, the recommended accessories on the above item need to be included.

SmartGuard Series Software

Stock code	Description
PCI-1/2	Smart Guard Standard software c/w PC-interface unit. - 1/16 controller version. - Able to manage door / car park access.
PCI-PRO	Smart Guard Pro software c/w PC-interface unit. - 1 Bus 16 controllers version. - Support fingerprint controller. - Able to manage door / lift / car park access.
PCI-PRORM	Multiple site remote monitoring software c/w PC-interface unit. - 1 Bus 16 controllers version. - Support fingerprint controller. - Able to manage door / lift / car park access.
PCI-RMAGN	-Remote program data collector. (Remote Agent)
CV2588	-RS485 to LAN converter. (UTP Ethernet 10 Base T with TCP/IP protocol)
CAS-OEM	Software development kit to communicate with Castle S-Series Controller. (CASWIN-OEM)
PCI-C/S-1A	Smart Guard Client-Server software c/w PC-interface unit. - 1 Bus 16 controllers version. - Able to manage door / lift / car park access.
PCI-C/S-2A	Smart Guard Client-Server software c/w PC-interface unit. - 2 Bus 32 controllers version - Able to manage door / lift / car park access.
PCI-C/S-RM1A	Smart Guard Client-Server remote software c/w PC-interface unit. (Multiple site remote monitoring) - 1 Bus 16 controllers version - Able to manage door / lift / car park access.

Dimensions :
150H x 90W x 25D mm

SmartGuard series software runs on : Win 95, NT, 98, 98(SE), ME, 2000 Professional

System Configuration [RS-485 Connection]

CPC-30
Power Supply

Bus 1

Max. 4 Doors Per Bus

RS232
Com1/Com2

(Max. 1Km)
2 Wires
RS485

Door sensor

Lock

PC Bundled with
SmartGuard Access
Control Software

PCI

Controller

Door 1 Entry Reader

Door 1 Exit Reader

Press Exit Buton

Castle-S/K/L Series

Centurion

Multi-Drop

Bus 2
Bus 3
Bus 4

Max. 4 Buses
2 Wire RS485 Per Bus
Each Bus Max. 1Km Distance