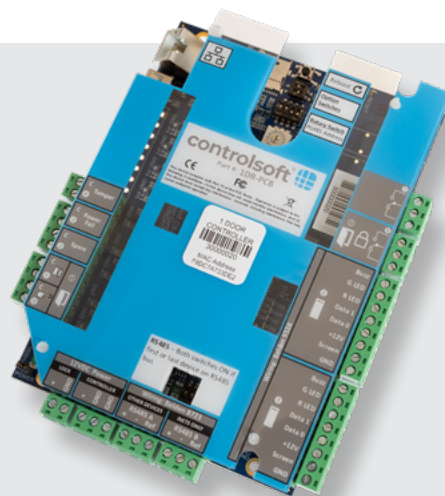
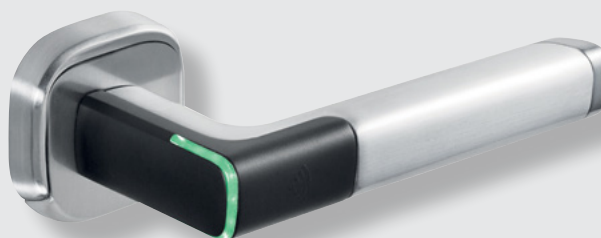




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Product Reference Guide - USA
December 2025



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access control



STEP 1	Choose your credentials See page 9	 ISO Smart Card Sales Code: IA-CRD		 Smart Key Fob Sales Code: IA-FOB		 App Based Mobile Credential Sales Code: HID-SUB-T100								
	STEP 2	Choose your readers See page 6	 Signo Mullion Sales Code: 20NKS-02-CS01		 Signo Mullion Keypad Sales Code: 20KNKS-02-CS01		 Signo Wallswitch Sales Code: 40NKS-02-CS01		 Signo Wallswitch Keypad Sales Code: 40KNKS-02-CS01		 Signo Tactile Keypad Sales Code: 40TTKS-02-CS01		 Signo Panel Mount Sales Code: IA-S30T-02	
		STEP 3	Choose your controllers See page 5	 1 Door Controller, Metal Can, 4A PSU Sales Code: US-1DR-ACU				 2 Door Controller, Metal Can, 4A PSU Sales Code: US-IA-ACU						
STEP 4			Choose your software See page 3	 LITE - Up to 12 Readers / Doors, Standard Features Free Download		 PRO - Up to 64 Readers / Doors, Advanced Features Sales Code: IA-PRO		 ENTERPRISE - Unlimited Readers / Doors, Advanced Features Sales Code: IA-ENT		 Optional - USB Enrolment Reader Sales Code: IA-DTR				



Part Numbers	Lite	Professional	Enterprise
One-time Purchase	IA-LITE	IA-PRO	IA-ENT
Annual Subscription	SUB-LITE	SUB-PRO	SUB-ENT
Features			
Maximum Number of Doors or Readers	12	64	UNLIMITED
Unlimited Number of Cardholders	■	■	■
Group Management	■	■	■
Real Time Access and Alarms Events Viewers	■	■	■
Employee, Visitor and Contractor Management	■	■	■
Unlimited Number of Client PCs	■	■	■
Support for OSDP Readers	■	■	■
Support for ASSA ABLOY APERIO Wireless Locks	■	■	■
Controller, Door and Report Wizards	■	■	■
Time Zone to Schedule Group, Door & PIN Pad operation	■	■	■
Issue Temporary Cards	■	■	■
Multiple Sites	■	■	■
User On Site / Off Site Counter	■	■	■
Operator Software Door Control	■	■	■
Configurable User Data Fields	■	■	■
Display User's Photo on Card Swipe	■	■	■
Microsoft SQL Database Platform	■	■	■
Snow Day Rule	■	■	■
Photo ID Badge Printing*	■	■	■
Bulk Card Upload	■	■	■
Multiple Site Selector	■	■	■

*Badge printing requires an Asure ID license per PC (Ordering Part No. IA-AID).

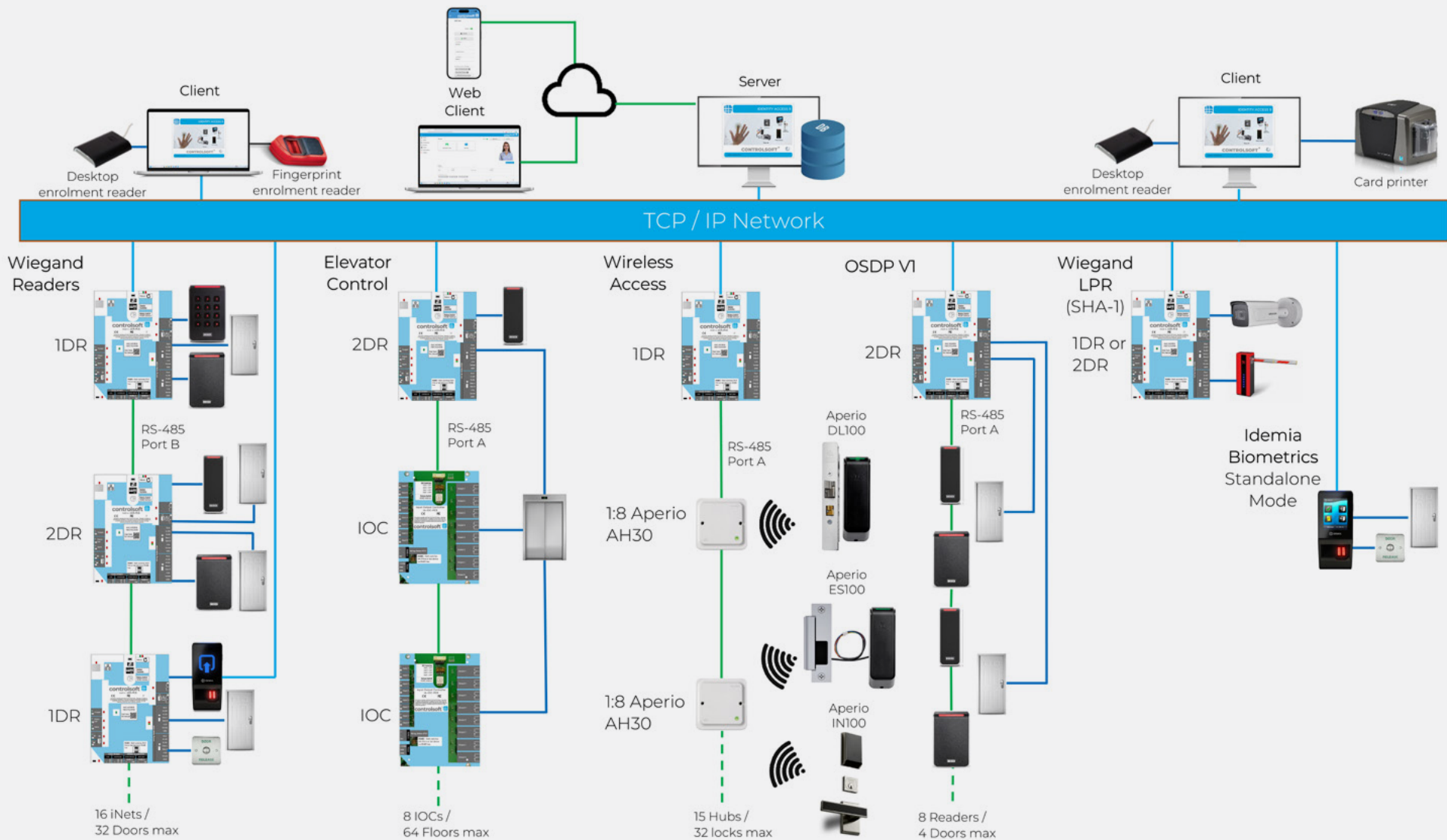
Features	Lite	Professional	Enterprise
Site Lockdown	X	■	■
Wiegand LPR Integration (SHA-1 26-bit)	X	■	■
Fire Alarm Roll Call Report	X	■	■
Time & Attendance Reporting	X	■	■
Fingerprint Enrolment	X	■	■
Direct Integration with IDEMIA Biometric readers	X	■	■
Email Notifications	X	■	■
AntiPassBack	X	■	■
Preconfigured Logic for Airlocks and Turnstiles	X	■	■
Elevators	X	■	■
Counters and Timers	X	■	■
Programmable Inputs and Outputs	X	■	■
Interactive Site Maps	X	■	■
Events and Actions	X	■	■
Web Client	X	■	■

Minimum System Requirements

Server	Client	Supported Operating Systems
Intel i5 processor @ 3GHz	Intel i3 processor @ 3GHz	Windows 10 Home or Pro (x64)
8GB RAM	4GB RAM	Windows 11
100GB Free Disk Space	100GB Free Disk Space	Windows Server 2016
10/100 Network Card	10/100 Network Card	Windows Server 2019
USB Port	USB Port	Windows Server 2022
Screen Resolution = 1280 x 800 or higher	Screen Resolution = 1280 x 800 or higher	Windows Server 2025



Identity Access Server / Client Configuration



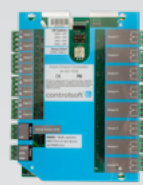
iNet™ Networked Access Control Units



iNet™ One Door Control Unit



iNet™ Two Door Control Unit



iNet I/O Expansion Board

Web Browser Interface (Read only)	Yes	Yes	No
TCP/IP	Yes	Yes	No
RS485	Yes	Yes	Yes
Power Requirements	120mA @ 12VDC	120mA @ 12VDC	20mA @ 12VDC
Maximum Cardholders	200,000	200,000	N/A
Maximum Event History Buffer	250,000	250,000	N/A
Maximum Time Zones	63	63	N/A
Maximum Wiegand Readers	2	2	N/A
Inputs	5	9	8
Outputs	2	4	8
PCB Dimensions (ins)	6.9 x 5.4 x 1	6.9 x 5.4 x 1	6.9 x 5.4 x 1
Warranty	3 Years		

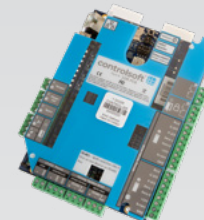
MAXIMUM NUMBER OF RS485 DOWNSTREAM DEVICES

iNet Controllers	15	15	N/A
IOC Expanders	15	15	N/A
AC-3151 Expanders (Discontinued)	0	15	N/A
AC-1100 Readers	2	8(Master) or 2(Downstream)	N/A
HID OSDP Readers	2	8(Master) or 2(Downstream)	N/A

Restrictions apply on certain combinations, see iNet manual for details

PART NUMBERS

PCB Only	US-1DR-PCB	US-1A-PCB	US-IOC-PCB
Metal housing with 4A PSU	US-1DR-ACU	US-1A-ACU	US-IOC-ACU
Metal housing, without PSU	US-1DR-ACB	US-1A-ACB	US-IOC-ACB



PCB Only

Dimensions: 6.9" x 5.4" x 1"

Weight: 0.77lbs



Metal Housing with PSU

Dimensions: 15" x 13" x 4"

Weight: 8lb



Metal housing, without PSU

Dimensions: 15" x 13" x 4"

Weight: 8lb

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HID Signo Readers



	 Signo 20	 Signo 20K	 Signo 40	 Signo 40K	 Signo 40T	 Signo Panel Mount Reader	 Amico Facial Recognition	 OMN-5427-CK
Wiegand	■	■	■	■	■	■	■	X
OSDP (RS485)	■	■	■	■	■	■	■	X
Mobile Access	■	■	■	■	■	■	■	BLE version
Pigtail or Terminal Option	■	■	■	■	Terminal Only	Terminal Only	Pigtail Only	USB
Tamper	■	■	■	■	■	■	■	X
Indoor and Outdoor Use	■	■	■	■	■	Indoor Only	■	Indoor Only
Black & Silver / White & Silver Option	■	■	■	■	Black & Silver Only	Black	Black	Black
Dimensions (ins)	1.77 x 4.78 x 0.77	1.78 x 4.79 x 0.85	3.15 x 4.78 x 0.77	3.16 x 4.79 x 0.85	3.16 x 4.82 x 0.96	2.3 x 2.3 x 0.5	3.4 x 5.6 x 1	2.79 x 3.66 x 0.63
Weight (oz)	3.35	3.88	4.94	5.64	5.82	1	12.17	3.53
Power Requirements	12Vdc ± 15%						12Vdc, 2A or PoE	USB
Current Requirements (mA)	70 (250mA peak)	75 (250mA peak)	75 (250mA peak)	80 (250mA peak)	120 (250mA Peak)	50 (250mA Peak)	400 (600mA Peak)	N/A
Read Range (ins)	13.56MHz - 1.6 to 4 (40 to 100mm), 125KHz - 2.4 to 4 (60 to 100 mm)					13.56MHz - 1.6 to 4 (40 to 100mm)	0.4 to 0.8 (10 to 20mm)	40 to 70
Warranty	Limited Lifetime						1 year	2 years



Credential Profiles

Communication Type	NFC/BLE	High Frequency											Low Frequency			
Credentials Technologies Supported	Seos (Mobile IDs via NFC/BLE)	Seos	iCLASS SE	iCLASS SR	iCLASS	MIFARE DESFire EV1/EV2/EV3 (SIO)	MIFARE Classic (SIO)	MIFARE DESFire EV1/EV2/EV3 (CSN)	MIFARE Classic (CSN)	MIFARE DESFire EV1/EV2/EV3 (Custom Data)	MIFARE Classic (Custom Data)	FeliCa Idm	CEPAS (CAN or UID)	125kHz HID Proximity	125kHz Indala Proximity	125kHz EM4102 Proximity

Regular Options

00 = Standard Profile*	■	■	■	■	■	■	■	■	■	×	×	×	×	■	■	■
01 = Seos Profile	■	■	×	×	×	×	×	×	×	×	×	×	×	×	×	×
02 = Smart Profile	■	■	■	■	■	■	■	×	×	×	×	×	×	×	×	×
03 = Custom Profile	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Signo options and ordering part codes

Reader Model	Wiring Connections	Body Colour	Trim Colour		Credential Profile		Configuration Option
20 = Mullion 20K = Mullion with keypad 40 = Wall Switch Mount 40K = Wall Switch Mount with keypad 40T = Wall Switch Mount with Tactile Keypad 30 = Décor Reader Module	N = Pigtail** T = Terminal Strip	K = Black W = White***	S = Silver M = Module	–	00 = Standard Profile 01 = SEOS Profile 02 = Smart Profile 03 = Custom Profile	–	000000 000000 000000 000000

* Decor Reader Module does not support Low Frequency

** Décor Reader Module Only Available as Terminal Strip

*** Tactile Keypad and Décor Reader Module not available in White

All Signo readers can be configured using the Reader Manager app, available from the App Store (Apple devices) or Google Play (Android devices)

Wireless Readers



						
	Adams Rite wireless deadlatch (DL100)	HES electric strike (ES100)	Wireless Lock (IN100)	Securitron card reader (R100)	Securitron card reader with relay (DR100)	Server Cabinet Lock (KS200)
Part Number	AP-DL100-	AP-ES100-	AP-IN100-	AP-R100H-IPS-B	AP-DR100-	AP-KS200-
Technology	HID SEOS / iClass / Prox / Mifare / DESFire					
HID Mobile Access	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirements	Lithium Battery					
Warranty	3 Years	3 Years	10 Years (Mechanical), 2 Years (Electrical)	3 Years		

Ancillaries

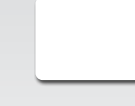
				
	Wiegand 1:1 Hub	RS485 1:8 Hub	External Antenna	Aperio Dongle
Part Number	AP-AH20-WIESTD_G5	AP-AH30-RS485_G5	AP-500ZB-EXTANT-00	AP-500ZB-RD-USB-00
Dimensions (ins)	3.2 x 3.2 x 1.4	3.2 x 3.2 x 1.4	N/A	1.6 x 0.8 x 0.4
Weight (oz)	2.6	2.6	N/A	0.4
Power Requirements	8 – 24V dc	8 – 24V dc	N/A	USB
Output Format	Wiegand	RS485	N/A	Wireless
Warranty	2 years		N/A	1 Year

HID iCLASS - Cards / Tags



											
	iCLASS 2K (2K/2)	iCLASS 32k (16k/2, 16k/1)	iCLASS 32k (16k/1, 16k/16)	iCLASS 2K SE (2K/2)	iCLASS 32k SE (16k/2, 16k/1)	iCLASS 32k SE (16k/1, 16k/16)	HID MIFARE 1K SE	HID MIFARE 4K SE	HID DESFire EV3 8K SE	iCLASS SEOS 8K	iCLASS SEOS 16K
Clamshell	HID-2080	N/A	N/A	N/A	N/A	HID-3354	N/A	N/A	N/A	N/A	N/A
ISO	HID-2000	HID-2003	HID-2004	HID-3000	HID-3003	HID-3004	HID-3400	HID-3406	HID-801	HID-5006	HID-5005
Keyfob	HID-2050	HID-2053	HID-2054	HID-3250	HID-3253	HID-3254	N/A	N/A	N/A	N/A	N/A
Sticker Tag	HID-2060	HID-2063	HID-2064	HID-3300	HID-3303	HID-3304	N/A	N/A	N/A	N/A	N/A
Warranty	Lifetime										

NXP MIFARE DESFire - Cards / Tags

				
	MIFARE 1K	MIFARE 4K	DESFire EV2 8K	DESFire EV3 8K
ISO	AC-7140	AC-7141	AC-7181	AC-7183
Keyfob	AC-7145	AC-7146	N/A	AC-7187
Warranty	Lifetime			

For EV1 use suffix, e.g. AC-7180-EV1

HID App Based Mobile Credentials

HID-SUB-T050	Essentials – Mobile Credential, Annual Subscription (Min Qty = 20)
HID-SUB-T053	Essentials – Mobile Credential, 3 Year Subscription (Min Qty = 20)
HID-SUB-T100	Mobile Phone Credential, Annual Subscription (Min Qty = 20)
HID-SUB-T103	Mobile Phone Credential, 3 Year Subscription (Min Qty = 20)
HID-SUB-T105	Mobile Phone Credential, 5 Year Subscription (Min Qty = 20)



HID Combination Cards

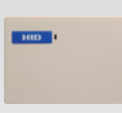
								
	HID Prox/iCLASS 2K	HID Prox/iCLASS 32K	HID Prox/Mifare 1K	HID Prox/Mifare 4K	HID Prox / DESFire EV3 8K	HID iCLASS 32K / MIFARE 1K	HID Prox/iCLASS SEOS 8K	HID Prox/iCLASS SEOS 16K
ISO	HID-2120	HID-2123/2124	HID-1431	HID-1441	HID-811	HID-2420	HID-5106	HID-5105
Warranty	Lifetime							

HID Proximity (125KHz) - Readers



								
	Desktop Reader	ProxPoint Plus	MiniProx	Thinline II	ProxPro with Keypad	ProxPro II	EntryProx	MaxiProx
Part Number	OMN-5427-CK	HID-6005	HID-5365	HID-5395	HID-5355K	HID-5455	HID-4045	HID-5375
Output Format	USB	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand / Clock and Data	Standalone/ Wiegand	Wiegand
Read Range	1.6 to 2.7 in					8.1 in	1.6 to 2.7 in	
Dimensions (ins)	3.7 x 2.8 x 0.8	3.1 x 1.8 x 0.6	5.9 x 1.7 x 0.8	4.7 x 3.0 x 0.6	4.9 x 4.9 x 1	5 x 5 x 1	5.3 x 2.7 x 1.8	12 x 12 x 1
Weight (oz)	4.7	3.5	8	7.4	9.7	9.7	11.8	50.8
Power Requirement	USB	5 - 16 VDC	5 - 16 VDC	5 - 16 VDC	10 - 28.5 VDC	5 - 16 VDC	10 - 15 VDC	12 / 24 VDC
Current Requirement	N/A	35 mA	35 mA	35 mA	155 mA	125 mA	150 mA	200 mA
Termination	N/A	Pigtail	Pigtail or Terminal Strip	Pigtail	Terminal Strip	Pigtail	Terminal Strip	Terminal Strip
Tamper	N/A	No	No	No	Switch	No	No	Switch
Indoor/Outdoor	Indoor	Both	Both	Both	Both	Both	Both	Both
Warranty	2 Years	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime

HID Proximity (125KHz) - Card / Tags

							
	ProxCert II	ISO Prox II	Duo Prox II	iCLASS Prox	Prox Key III	MicroProx Tag	ProxPass II
Part Number	HID-1326	HID-1386	HID-1336	HID-2120	HID-1346	HID-1391	HID-1351
Magnetic Stripe	No	No	Yes	Optional	No	No	No
Printable	No	Yes	Yes	Yes	No	No	No
Slot Punch	Vertical	Optional	Optional	Optional	No	No	No
Warranty	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	1 Year



									
	MorphoSmart MSO-1300	MorphoSmart MSO-330	Sigma Wide	Sigma Lite	Sigma Lite Plus	MorphoWave XP2	MorphoWave Compact SP	VisionPass	VisionPass SP
Part Number (Bio only)	SG-293670362	SG-293670375	N/A	SG-293678615	N/A	N/A	N/A	N/A	N/A
Part Number with Mifare Reader	N/A	N/A	SG-293638877	SG-293678636	SG-293678660	SG-293809715 (MIFARE/DESFire)	SG-293777400 (MIFARE/DESFire)	SG-293744571 (MIFARE/DESFire)	SG-293803151
Part Number with HID iCLASS Reader	N/A	N/A	SG-293638856	SG-293678628	SG-293673644	SG-293817486 iClass/MIFARE/DESFire/Mobile	N/A	SG-293744604 (iCLASS/MIFARE/DESFire/HID Prox)	SG-293793826
Part Number with HID Prox Reader	N/A	N/A	N/A	SG-293673665	SG-293678678	N/A			N/A
Part Number with Mobile Access Reader	N/A	N/A	N/A	N/A	N/A	SG-293817486 iClass/MIFARE/DESFire/Mobile	N/A	SG-293767954 (iCLASS/MIFARE/DESFire/HID Prox/Mobile)	N/A
Users - Biometric Templates	N/A	N/A	5000	500	500	40,000	10,000	20,000	10,000
Users - Template on card	N/A	N/A					Unlimited (iCLASS, MIFARE and DESFire only)		
Expansion Option	N/A	N/A	Options for 10,000 / 50,000 / 100,000 users	Options for 3,000 / 10,000 users	Options for 3,000 / 10,000 users	100,000	N/A	40,000	50,000
Outdoor Use / IP Rating	No	No	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Identification Time	<1.2 sec	<1.2 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.0sec	<1.0sec	<1.0 sec
Dimensions (ins)	2.7 x 1.57 x 0.6	3.5 x 3.1 x 2.1	6.0 x 5.9 x 2.3	6.0 x 5.9 x 2.3	6.1 x 2.7 x 2.4	9.8 x 6.0 x 8.5	9.8 x 6.0 x 8.5	12.7 x 5.6 x 4.3	8.2 x 4.0 x 1.4
Weight (oz)	3.5	7.0	16.5	9.9	9.9	77.6	77.6	74.1	28.2
Power Requirements	5v / USB	5v / USB	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	12 to 24 V DC (2.5A min @12V)	12 to 24 V DC (2.5A min @12V)	12 to 24 V DC (3A min @12V)	12 to 24 V DC (2.5A min @12V)
Power Over Ethernet	N/A	N/A	Yes	Yes	Yes	PoE+	PoE+	N/A	PoE+
Onboard Relay Output	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wiegand Output	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSDP	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Warranty

2 Year (warranty extension options for 1 and 3 years)

Experts in Access Control, focussed on Excellence

Controlsoft have over 35 years experience in the development, manufacture and distribution of Access Control Solutions.

We are experts in our industry sector and offer a comprehensive range of access control solutions that are not only price competitive but easy for both our partners to install and their end user customers to manage.

With over 10,000 systems in daily use around the world, we are reliable and committed to excellence in our products, customer service and support.

In addition to our own products, we distribute many third party products in order to deliver the complete solution to our partners. These include HID (Readers, Credentials and Fargo card printers), Idemia (Morpho Fingerprint Readers) and Iris ID (Iris Readers).

Controlsoft believe in long term partnerships with both our Customers and Suppliers.

Please visit our website www.controlsoft.com for the most up-to-date datasheets and installation guides for all our products.



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