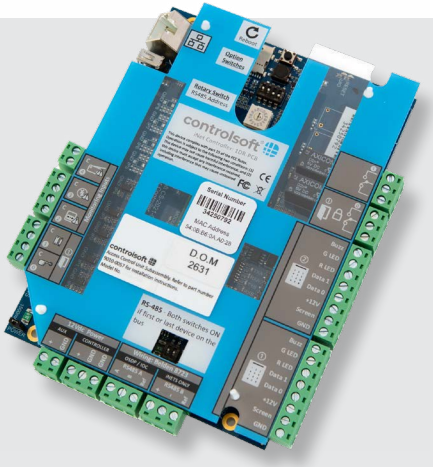
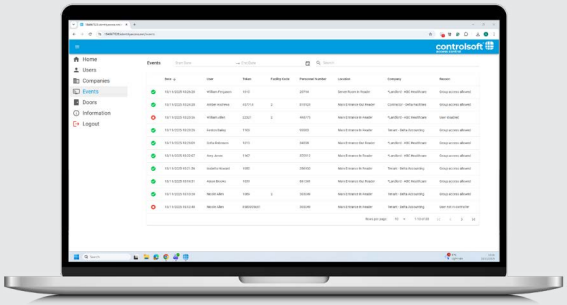


access



Product Reference Guide - USA
October 2026

aperio® HID® IDEMIA augmented identity IRIS ID

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controlsoft® access control

Quote Builder

STEP 1 — Choose your credentials

See page 9

ISO Smart Card
Sales Code: IA-CRD

Smart Key Fob
Sales Code: IA-FOB

HID Wallet Pass
Sales Code: HID-SUB-T200

STEP 2 — Choose your readers

See page 6

Signo Mullion
Sales Code: IA-S20P-02

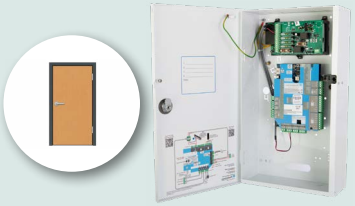
Signo Mullion Keypad
Sales Code: IA-S20KP-02

Signo Wallswitch
Sales Code: IA-S40P-02

Signo Wallswitch Keypad
Sales Code: IA-S40KP-02

STEP 3 — Choose your controllers

See page 5



1 Door Controller, Metal Can, 2A PSU
Sales Code: US-1DR-ACU

2 Door Controller, Metal Can, 4A PSU
Sales Code: US-2DR-ACU

STEP 4 — Choose your software

See page 3

PRO - Up to 64 Readers / Doors
Sales Code: SUB-PRO

ENTERPRISE - Unlimited Readers / Doors
Sales Code: SUB-ENT

Optional - USB Enrolment Reader
Sales Code: IA-DTR

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Identity Access

Part Numbers	Lite	Professional	Enterprise
One-time Purchase	Free Download	IA-PRO	IA-ENT
Annual Subscription - Required for HID Wallet Pass	N/A	SUB-PRO	SUB-ENT

Features	Lite	Professional	Enterprise
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	■	■	■
Bulk Card Upload	■	■	■
User On Site / Off Site Counter	■	■	■
Operator Software Door Control	■	■	■
Configurable User Data Fields	■	■	■
Display User's Photo on Card Swipe	■	■	■
Microsoft SQL Express Database Platform	■	■	■
Snow Day Rule	■	■	■
Photo ID Card Printing*	■	■	■
HID App-Based Mobile Access	■	■	■
Web / Mobile Client	X	■	■

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

Features	Lite	Professional	Enterprise
Fire Alarm Roll Call Report	X	■	■
HID Wallet Pass**	X	■	■
Site Lockdown	X	■	■
Wiegand ANPR Integration (SHA-1 26-bit)	X	■	■
Time & Attendance Reporting	X	■	■
Fingerprint Enrolment	X	■	■
Direct Integration with Morpho 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	■	■

** Requires active Annual Subscription.

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 = 1024 x 800 or higher	Screen Resolution = 1024 x 800 or higher	Windows Server 2025

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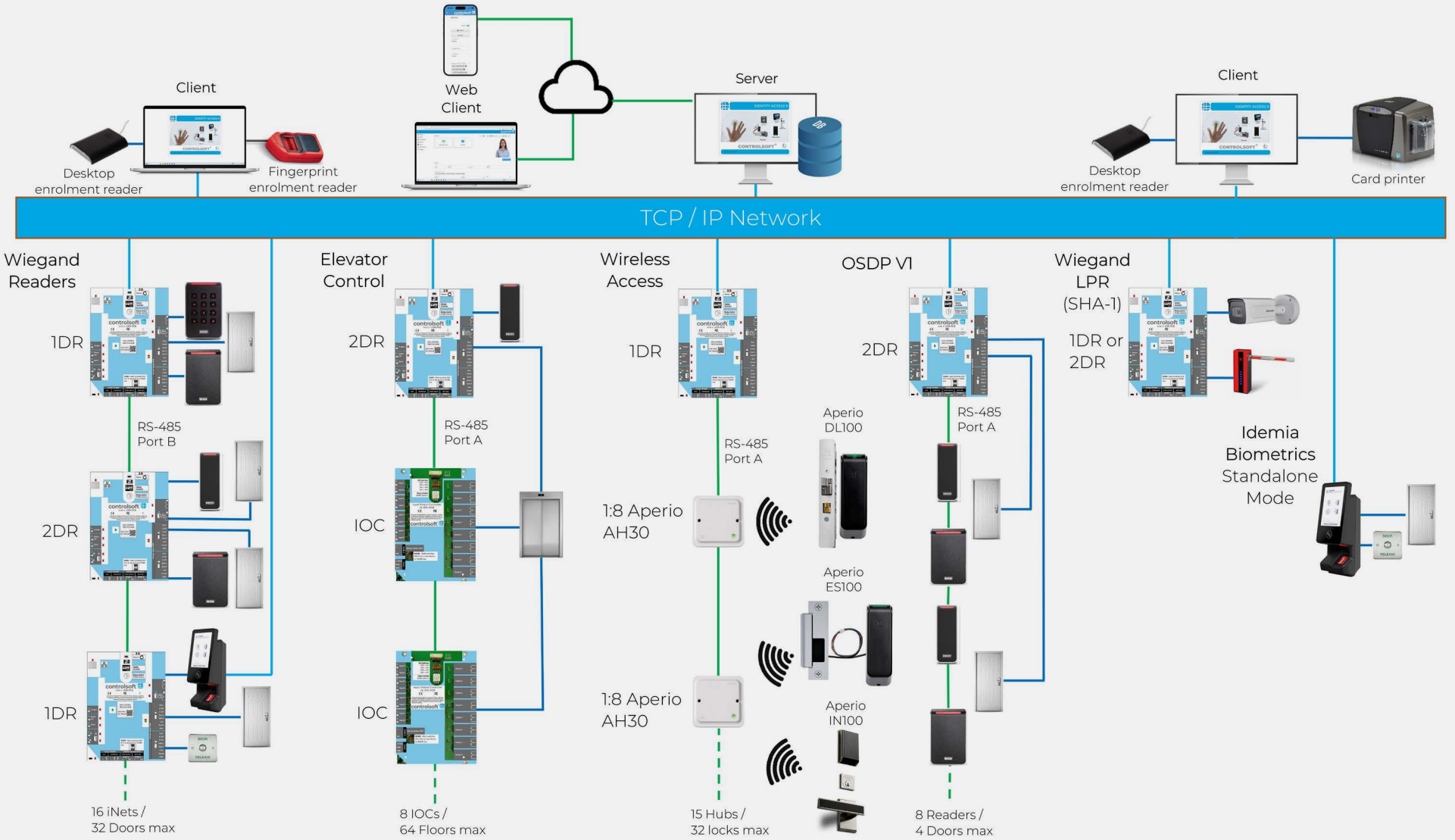
Identity Access Server / Client Configuration



Identity Access Configuration

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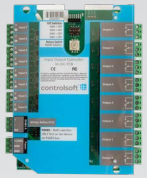
iNet™ Networked Access Control Units

	iNet™ One Door Control Unit	iNet™ Two Door Control Unit	 iNet I/O Expansion Board
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		

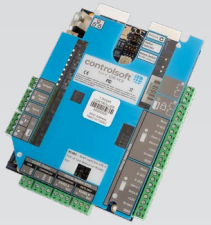
MAXIMUM NUMBER OF RS485 DOWNSTREAM DEVICES

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-2DR-PCB	US-IOC-PCB
Including PSUBOX1	US-1DR-ACU	N/A	N/A
Including PSUBOX2	N/A	US-2DR-ACU	US-IOC-ACU



PCB Only

Dimensions: 6.9” x 5.4” x 1”

Weight: 0.77lbs

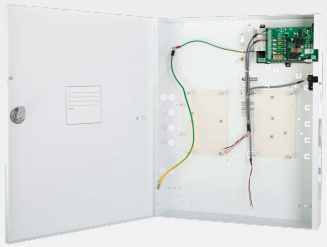
Metal Cabinet: PSUBOX1

Space for 1 iNet Controller

12V DC 4A Monitored PSU

Dimensions: 18” x 10” x 4.5”

Weight: 9lb



Metal Cabinet: PSUBOX2

Space for 2 iNet Controllers

12V DC 4A Monitored PSU

Dimensions: 20” x 16” x 3”

Weight: 17lb

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HID Signo Readers

	Signo 20	Signo 20K	Signo 40	Signo 40K	Signo 40T	Amico Facial Recognition	OMN-5427-CK
Wiegand	■	■	■	■	■	■	X
OSDP (RS485)	■	■	■	■	■	■	X
Mobile Credentials	■	■	■	■	■	■	BLE version
Pigtail or Terminal Option	■	■	■	■	Terminal Only	Pigtail Only	USB
Tamper	■	■	■	■	■	■	X
Indoor and Outdoor Use	■	■	■	■	■	■	Indoor Only
Black & Silver / White & Silver Option	■	■	■	■	Black & Silver Only	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	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	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)	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)					0.4 to 0.8 (10 to 20mm)	40 to 70
Warranty	Limited Lifetime					1 year	2 years

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HID Signo Readers

Credential Profiles

Communication Type	NFC/BLE	High Frequency												Low Frequency		
Credentials Technolgies 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*	■	■	■	■	■	■	■	■	■	X	X	X	X	■	■	■
01 = Seos Profile	■	■	X	X	X	X	X	X	X	X	X	X	X	X	X	X
02 = Smart Profile	■	■	■	■	■	■	■	X	X	X	X	X	X	X	X	X
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	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

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

* Tactile Keypad not available in White

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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

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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 Mobile Credentials

HID-SUB-T050	Essentials – App-Based, AnnualSubscription (Min Qty = 20)
HID-SUB-T053	Essentials – App-Based, 3 Year Subscription (Min Qty = 20)
HID-SUB-T100	App-Based, Annual Subscription (Min Qty = 20))
HID-SUB-T103	App-Based, 3 Year Subscription (Min Qty = 20)
HID-SUB-T200	Wallet, Annual 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							

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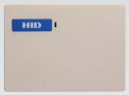
Proximity (125KHz) - Readers

	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

Proximity (125KHz) - Card / Tags

	ProxCard 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

HID Prox

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IDEMIA
augmented identity

Idemia Fingerprint

	MorphoSmart MSO-1300	MorphoSmart MSO-330	SigmaTouch Go	SigmaTouch Pro	Sigma Lite	Sigma Lite Plus	MorphoWave XP2	VisionPass	VisionPass SP
Part Number (Bio only)	SG-293670362	SG-293670375	N/A	N/A	SG-293678615	N/A	N/A	N/A	N/A
Part Number with Mifare Reader	N/A	N/A	SG-293816166	SG-293816153	SG-293678636	SG-293678660	SG-293809715 (MIFARE/DESFire)	SG- 293744571 (MIFARE/DESFire)	SG-293803151
Part Number with HID iCLASS Reader	N/A	N/A	N/A	SG-293818730	SG-293678628	SG-293673644	SG-293817486 iClass/MIFARE/ DESFire/Mobile	SG- 293744604 (iCLASS/MIFARE/ DESFire/HID Prox)	SG-293793826
Part Number with HID Prox Reader	N/A	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	SG-293818730	N/A	N/A	SG-293817486 iClass/MIFARE/ DESFire/Mobile	SG- 293767954 (iCLASS/MIFARE/ DESFire/HID Prox/ Mobile)	N/A
Users - Biometric Templates	N/A	N/A	3000	50,000	500	500	40,000	20,000	10,000
Users - Template on card	N/A	N/A	Unlimited (iCLASS, MIFARE and DESFire only)						
Expansion Option	N/A	N/A	10,000	100,000	Options for 3,000 / 10,000 users	Options for 3,000 / 10,000 users	100,000	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	<1.0 sec	<1.0sec	<1.0 sec
Dimensions (ins)	2.7 x 1.57 x 0.6	3.5 x 3.1 x 2.1	6.1 x 2.7 x 2.1	6.9 x 2.7 x 2.4	6.0 x 5.9 x 2.3	6.1 x 2.7 x 2.4	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	12.1	16.7	9.9	9.9	77.6	74.1	28.2
Power Requirements	5v / USB	5v / USB	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	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	Yes	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)								

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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 and Credentials), 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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