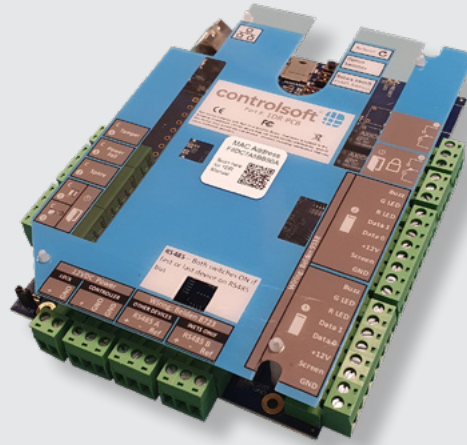




access

US Product Guide February 2023



Identity Access

Features	IA-LITE	IA-PRO	IA-ENT
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 Express Database Platform	■	■	■
Snow Day Rule	■	■	■
Photo ID Card Printing*	■	■	■
Site Lockdown	×	■	■
Hikvision ANPR Integration	×	■	■
Fire Alarm Roll Call Report	×	■	■

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

Features	IA-LITE	IA-PRO	IA-ENT
Time & Attendance Reporting	×	■	■
Fingerprint Enrolment	×	■	■
Direct Integration with Morpho Biometric readers	×	■	■
Email Notifications	×	■	■
AntiPassBack	×	■	■
Preconfigured Logic for Airlocks and Turnstiles	×	■	■
Elevators	×	■	■
Counters and Timers	×	■	■
Programmable Inputs and Outputs	×	■	■
Interactive Site Maps	×	■	■
Events and Actions	×	■	■
Annual Subscription Option	×	SUB-PRO	SUB-ENT

System Requirements

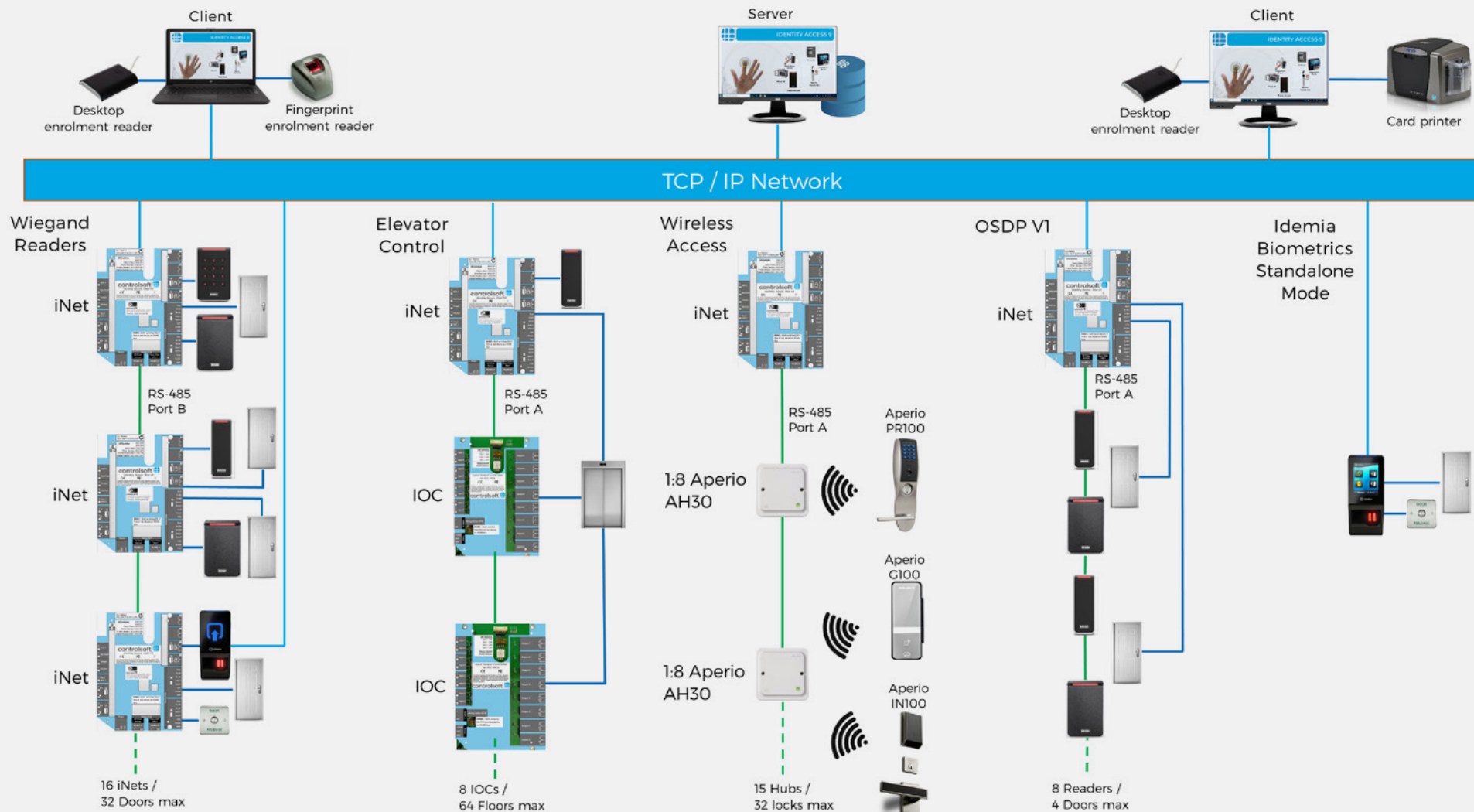
Server	Client	Supported Operating Systems
Intel i5 processor @ 3GHz	Intel i3 processor @ 3GHz	Windows 10 Home or Pro (x64)
8GB RAM	4GB RAM	Windows Server 2012 R2
100GB Free Disk Space	100GB Free Disk Space	Windows Server 2016
10/100 Network Card	10/100 Network Card	Windows Server 2019
USB Port	USB Port	
Screen Resolution = 1280 x 800 or higher	Screen Resolution = 1280 x 800 or higher	

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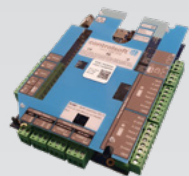
Controlsoft Product Reference Guide

www.controlsoft.com

Identity Access Server / Client Configuration



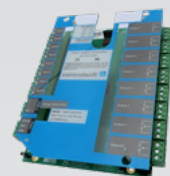
iNet™ Networked Access Control Units



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	250mA @ 12VDC	20mA @ 12VDC
Maximum Cardholders	200,000	50,000	N/A
Maximum Event History Buffer	250,000	100,000	N/A
Maximum Schedules	63	63	N/A
Maximum Wiegand Readers	2	2	N/A
Inputs	5	9	8
Outputs	2	4	8
PCB Dimensions (ins)	6 7/8 x 5 3/8 x 1	6 7/8 x 5 3/8 x 1	6 3/8 x 4 3/4 x 5/8
Warranty		3 Years	

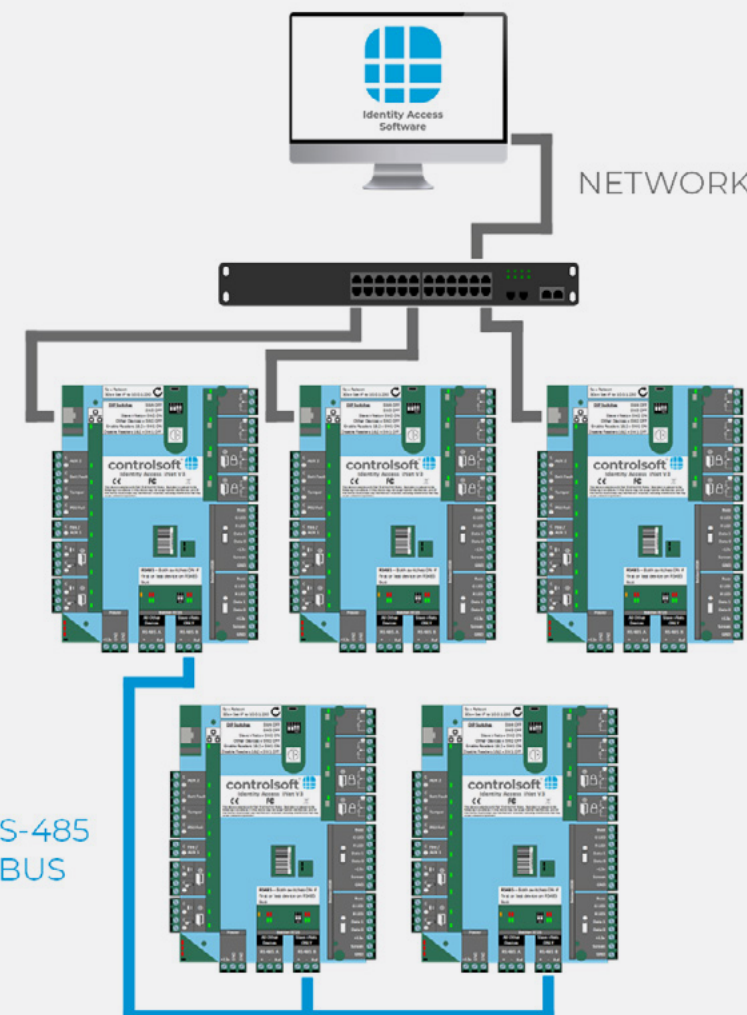
MAXIMUM NUMBER OF RS485 DOWNSTREAM DEVICES

iNet Controllers	15	15	N/A
IOC Expanders	15	15	N/A
AC-3151 Expanders	0	15	N/A
Controlsoft RS485 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-IDR-PCB	US-IA-PCB	US-IOC-PCB
Metal housing without PSU	US-IDR-ACB	US-IA-ACB	US-IOC-ACB
Metal housing with Altronix 4A PSU	US-IDR-ACU	US-IA-ACU	US-IOC-ACU
Metal housing with 3A Smart POE++	US-IDR-POE	US-IA-POE	US-IOC-POE



Networked Control Units

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HID Signo Readers

	 Signo 20	 Signo 20K	 Signo 40	 Signo 40K	 Signo 25B
Wiegand	■	■	■	■	■
OSDP (RS485)	■	■	■	■	×
Mobile Access	■	■	■	■	■
Pigtail or Terminal Option	■	■	■	■	Pigtail, 457mm (18")
Tamper	■	■	■	■	■
Indoor and Outdoor Use	■	■	■	■	■
Black & Silver Finish	■	■	■	■	■
Dimensions (ins)	1 3/4 x 4 3/4 x 3/4	1 3/4 x 4 3/4 x 7/8	3 5/32 x 4 3/4 x 3/4	3 5/32 x 4 13/16 x 7/8	1 15/16 x 7 15/16 x 2 3/16
Weight (oz)	2 5/8	3 5/32	4 1/4	4 15/16	13 1/16
Power Requirements	12Vdc ± 15%				
Current Requirements (mA)	70 (250mA peak)	75 (250mA peak)	75 (250mA peak)	80 (250mA peak)	1.5A max
Read Range (ins)	1.6 to 4.0 (13.56MHz), 2.4 to 4.0 (125KHz)				1
Warranty	Limited Lifetime				18 months

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	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Priority Options

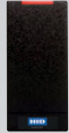
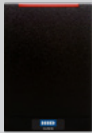
T0 = Priority Standard Profile	■	■	■	■	■	■	■	■	■	×	×	×	×	×	×	×
T1 = Priority Seos Profile	■	■	×	×	×	×	×	×	×	×	×	×	×	×	×	×
T2 = Priority Smart Profile	■	■	■	■	■	■	■	×	×	×	×	×	×	×	×	×
T3 = Priority Custom Profile	■	■	■	■	■	■	■	■	■	■	■	■	■	×	×	×

Signo options and ordering part codes

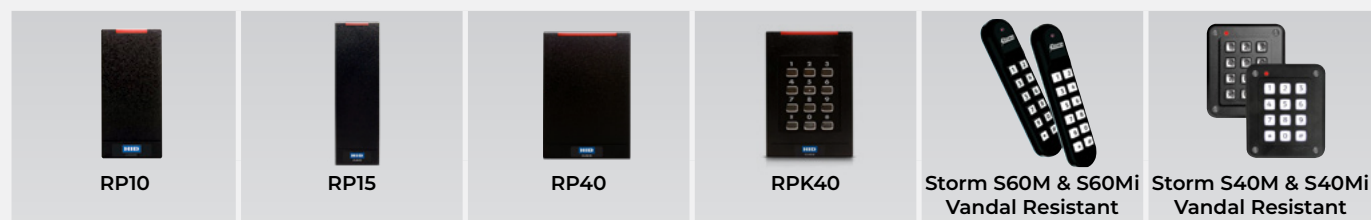
Reader Model	Wiring Connections	Body Colour	Trim Colour		Credential Profile		Configuration Option
20 = Mullion 20K = Mullion with keypad 40 = Wall Switch Mount 40K = Wall Switch Mount with keypad	N = Pigtail T = Terminal Strip	K = Black	S = Silver	–	00 = Standard Profile 01 = SEOS Profile 02 = Smart Profile 03 = Custom Profile	–	000000 00001H 0002BL 000000

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

HID iCLASS SE / MIFARE DESFire / Mobile (BLE/NFC) – Readers

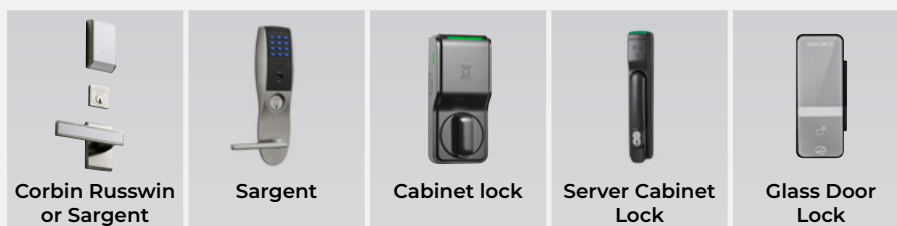
	 Mifare Desktop Reader	 iCLASS Desktop Reader	 R10	 R15	 R40	 RK40	 R90	 U90 Long Range Reader	 Storm S40 & S40i Vandal Resistant	 Storm S60 & S60i Vandal Resistant	 R95A Décor Reader
Part Number	OMN-1052	OMN-5427-CK	HID-900-N	HID-910-N	HID-920-N	HID-921-N	HID-940-N	HID-U908	HID-S40 / HID-S40i	HID-S60 / HID-S60i	HID-95A
Output Format	USB	USB	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand
OSDP (RS485)	No	No	Optional	Optional	Optional	Optional	No	Optional	No	No	Optional
Mobile Access (includes OSDP)	No	No	HID-900-NM	HID-910-NM	HID-920-NM	HID-921-NM	No	No	No	No	N/A
Dimensions (ins)	3 3/4 x 2 3/4 x 3/4	3 3/4 x 2 3/4 x 3/4	4 1/16 x 1 7/8 x 1	6 x 1 7/8 x 1	4 7/8 x 3 5/16 x 1	4 7/8 x 3 5/16 x 1	13 1/8 x 13 1/8 x 1 1/2	9 1/8 x 9 1/8 x 2 3/4	3 15/16 x 4 1 1/16 x 1 11/16	7 7/8 x 1 3/4 x 1	3 7/16 x 3 7/16 x 7/8
Weight (oz)	4 3/4	4 3/4	3 1/4	3 1/4	8 7/8	10	65 1/2	42 5/16	14 3/8	7 1/4	2 3/4
Power Requirement	USB	USB	5 – 16 VDC	5 – 16VDC	5 – 16VDC	5 – 16VDC	12 – 24 VDC	12 – 24 VDC	10.2 – 13.8 VDC	10.2 – 13.8 VDC	5 – 16 VDC
Current Requirement	N/A	N/A	116 mA	112 mA	121 mA	116 mA	1300 mA	400mA @ 12V	200mA max	500mA max	60mA
Read Range	1 5/8 to 2 3/4 ins							9 7/8 to 16 3/8 ft	3 7/8 ins	3 7/8 ins	1 3/16 to 2 3/4 ins
Termination	N/A	N/A	Pigtail / Terminal	Pigtail / Terminal	Pigtail / Terminal	Pigtail / Terminal	Terminal	Terminal	Terminal	Terminal	Terminal
Tamper	N/A	N/A	Optional	Optional	Optional	Optional	Optional	Optional	Yes	Yes	Yes
Indoor/Outdoor	Indoor	Indoor	Both	Both	Both	Both	Both	Both	Both	Both	Indoor
Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black / White / Grey
Warranty	2 Years	2 Years	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	2 Years	1 Year	1 Year	Lifetime

HID[®] multiCLASS SE / Mobile (BLE/NFC) Readers



Additional Technologies		Controlsoft Prox, HID Prox, EM4102 and Indala Prox				
HID Prox, EM4102		HID-900-P	HID-910-P	HID-920-P	HID-921-P	
OSDP (RS485)		Optional				No
Mobile Access (includes OSDP)		HID-900-PM	HID-910-PM	HID-920-PM	HID-921-PM	No

Aperio Wireless Readers



Part Number	IN100	PR100	K100	KS100	G100
Technology	SEOS / iCLASS / SIO / MIFARE / DESFire / HID Prox				
Read Range (ins)	1	30	30	30	30
Dimensions (ins)	8 x 1 ¾	13 ½ x 3 ¾	4 x 2 x 1 ¼	9 x 2 x 1 ½	7 ½ x 2 x 3
Weight (lbs)	11	11	1	1	2
Power Requirements	6 x AA	6 x AA	2 x AA	2 x AA	4 x AA
Output Format	Wireless				
Indoor/Outdoor	Indoor				
Warranty	10 year mechanical, 2 year electrical				



Part Number	AH-20	AH-30	EXT-10-ANT
Conductors required	12	5	N/A
Dimensions (ins)	3 ¼ x 3 ¼ x 1 ½		N/A
Weight (lbs)	¼		N/A
Wireless coverage range	Up to 50 feet		N/A
Voltage at hub	8 to 24Vdc		N/A
Current consumption	80 mA at 12 VDC		N/A

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 8K SE	iCLASS SEOS 8K	iCLASS SEOS 16K
Clamshell	HID-2080	N/A	N/A	HID-3350	HID-3353	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-3700	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	
Warranty	Lifetime										

NXP MIFARE DESFire - Cards / Tags

				
	MIFARE 1K	MIFARE 4K	DESFire EV2 4K	DESFire EV2 8K
ISO	AC-7140	AC-7141	AC-7180	AC-7181
Keyfob	AC-7145	AC-7146	AC-7185	AC-7186
Warranty	Lifetime			

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

HID Combination Cards

								
	HID Prox/iCLASS 2K	HID Prox/iCLASS 32K	HID Prox/Mifare 1K	HID Prox/Mifare 4K	HID Prox/Desfire 8K	HID iCLASS 2K/Mifare 1K	HID Prox/iCLASS SEOS 8K	HID Prox/iCLASS SEOS 16K
ISO	HID-2120	HID-2123/2124	HID-1431	HID-1441	HID-1451	HID-2320	HID-5106	HID-5105
Warranty	Lifetime							

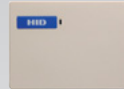
HID UHF Cards

				
	UHF	UHF/Mifare 4K	UHF/iCLASS 32K (16K/2)	UHF/iCLASS 32K (16K/16)
ISO	HID-600	HID-603	HID-6013	HID-6014
Warranty	Lifetime			

HID Proximity (125KHz) - Readers

									
	Desktop Reader	ProxPoint Plus	MiniProx	Thinline II	ProxPro	ProxPro with Keypad	ProxPro II	EntryProx	MaxiProx
Part Number	OMN-5427-CK	HID-6005	HID-5365	HID-5395	HID-5355	HID-5355K	HID-5455	HID-4045	HID-5375
Output Format	USB	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand / Clock and Data	Standalone/Wiegand	Wiegand
Read Range (ins)		1 5/8 to 2 3/4						8 1/2	1 5/8 to 2 3/4
Dimensions (ins)	3 3/4 x 2 3/4 x 3/4	3 1/8 x 1 3/4 x 5/8	5 7/8 x 1 3/4 x 3/4	4 3/4 x 2 7/8 x 5/8	4 7/8 x 4 7/8 x 1	4 7/8 x 4 7/8 x 1	5 x 5 x 1	5 5/16 x 2 3/4 x 1 3/8	12 x 12 x 1
Weight (oz)	4 3/4	3 1/2	8	7 1/2	9 3/4	9 3/4	9 3/4	11 3/4	50 3/4
Power Requirement	USB	5 - 16 VDC	5 - 16 VDC	5 - 16 VDC	10 - 28.5 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	155 mA	125 mA	150 mA	200 mA
Termination	N/A	Pigtail	Pigtail or Terminal Strip	Pigtail	Pigtail	Terminal Strip	Pigtail	Terminal Strip	Terminal Strip
Tamper	N/A	No	No	No	Switch	Switch	No	No	Switch
Indoor/Outdoor	Indoor	Both	Both	Both	Both	Both	Both	Both	Both
Warranty	2 Years	Lifetime	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

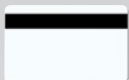
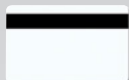
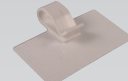
Other Technology - Readers

	 Magstripe	 Storm Keypad	 AWID
Part Number	AX-5232 / AX-5233	ST-DX2KW20 (Polymer) ST-DX1KT20 (Metal)	AW-LR-2200
Dimensions (ins)	4 7/16 x 1 5/8 x 1 3/8	4 7/16 x 1 5/8 x 1 3/8	8 x 8 x 1
Weight (oz)	10 1/2	10 1/2	36 3/4
Power Requirement	5 - 16 vdc	5 - 12Vdc	12Vdc
Current Requirement	50 mA	250mA	1A
Termination	Pigtail	Terminal	Pigtail
Tamper	No	No	No
Indoor/Outdoor	Both	Both	Both
Warranty	1 Year	2 Years	1 Year

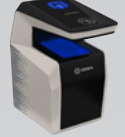
Iris Readers

	 Iris	 Iris
Part Number	iCAM7101	iCAM7000
Part Number with multiCLASS Reader	iCAM7111	iCAM7010
Users	500 (EAC500 software)	
Expansion Option	more than 100K with license	
LCD Display	Yes	No
Onboard Relay	Yes	Yes
Wiegand Output	Yes	Yes
Outdoor Use	No	No
Dimensions (ins)	7 x 8 5/16 x 2 1/2	7 x 8 5/16 x 2 1/2
Weight (lbs)	3 1/2	3 1/2
Power Requirements	12 - 24Vdc 2.0A	12 - 24Vdc 2.0A
Warranty	1 Year	1 Year
Colour	Black (B) / Titanium (T)	

Other Technology - Credentials

	 Magstripe Unencoded	 Magstripe Encoded	 AWID Windshield Tag	 AWID Hang Tag	 AWID Visor Tag
Part Number	AC-7160	AC-7165	AW-WS	AW-HT	AW-VT
Read Range	N/A	N/A	10 to 16 feet	10 to 16 feet	10 to 16 feet
Printable	Yes	Yes	No	No	No
Slot Punch	Optional	Optional	No	No	No
Warranty	Lifetime	Lifetime	1 Year	1 Year	1 Year

Fingerprint Readers

									
	MorphoSmart MSO-1300	MorphoSmart MSO-330	Morpho Sigma Extreme	Morpho Sigma	Morpho Sigma Lite	Morpho Sigma Lite Plus	MorphoWave Compact XP	MorphoWave Compact SP	VisionPass
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-293701737	SG-293638877	SG-293678636	SG-293678660	SG-293722301 (MIFARE/ DESFire)	SG- 293777400 (MIFARE/ DESFire)	SG- 293744571 (MIFARE/ DESFire)
Part Number with HID iCLASS Reader	N/A	N/A	SG-293701729	SG-293638856	SG-293678628	SG-293673644	SG-293722319 (iCLASS/ MIFARE/ DESFire/HID Prox)	SG- 293777380 (iCLASS/ MIFARE/ DESFire/HID Prox)	SG- 293744604 (iCLASS/ MIFARE/ DESFire/HID Prox)
Part Number with HID Prox Reader	N/A	N/A	SG-293701740	N/A	SG-293673665	SG-293678678			
Part Number with Mobile Access Reader	N/A	N/A	N/A	N/A	N/A	N/A	SG- 293771247 (iCLASS/ MIFARE/ DESFire/HID Prox/Mobile)	SG- 293777421 (iCLASS/ MIFARE/ DESFire/HID Prox/Mobile)	SG- 293767954 (iCLASS/ MIFARE/ DESFire/HID Prox/Mobile)
Users - Fingerprint Only	N/A	N/A	5000	3000	500	500	40,000	10,000	20,000
Users - Template on card	N/A	N/A	Unlimited (MIFARE or iCLASS only)	Unlimited (MIFARE or iCLASS only)	Unlimited (MIFARE or iCLASS only)	Unlimited (MIFARE or iCLASS only)	Unlimited (iCLASS, MIFARE and DESFire only)	Unlimited (iCLASS, MIFARE and DESFire only)	Unlimited (iCLASS, MIFARE and DESFire only)
Expansion Option	N/A	N/A	Options for 10,000 / 50,000 / 100,000 users	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
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	<1.0sec
Dimensions (ins)	2 ¾ x 1 ½ x ½	3 ½ x 3 ⅜ x 2 ⅝	2 ⅝ x 3 ⅜ x 5 ¼	11 ⅞ x 6 ⅝ x 3 ⅞	6 x 6 x 2 ⅝	6 x 2 ¾ x 2 ⅝	6 x 2 ¾ x 2 ⅝	3 ½ x 6 ¼ x 5	9 ⅞ x 6 x 8 ½
Weight (oz)	3 ½	7	7	56 ½	16 ½	9 ⅞	9 ⅞	18 ⅞	77 ½
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 (2.5A min @12V)	12 to 24 V DC (3A min @12V)
Power Over Ethernet	N/A	N/A	Yes	Yes	Yes	Yes	PoE+	PoE+	N/A
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 30 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), Third Millennium (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.

All iNet controllers are manufactured in the UK to ISO9001:2015.



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