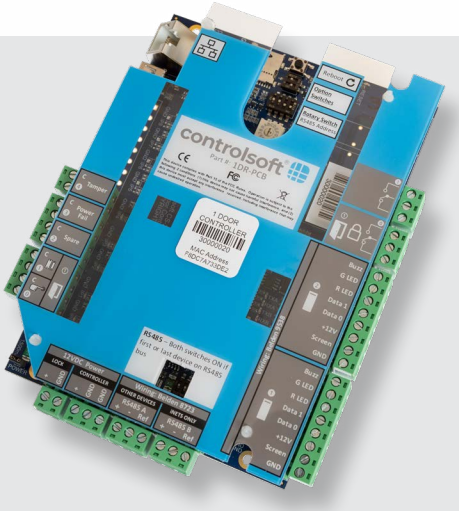
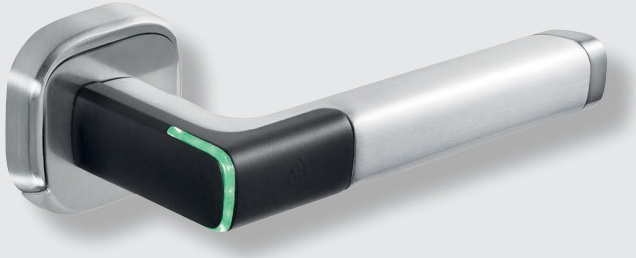


access



Product Reference Guide
June 2026

aperio® HID® IDEMIA augmented identity IRIS ID

www.controlsoft.com

controlsoft®
access control

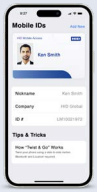
System Builder

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

Wallet Mobile Credential
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

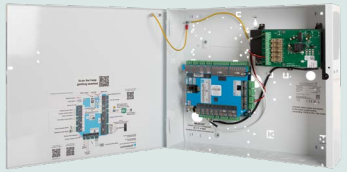
Signo Wallswitch Keypad
Sales Code: IA-S40KP-02

Signo Panel Mount
Sales Code: IA-S30T-02

STEP 3 — Choose your controllers

See page 5

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



1 Door Controller, Metal Enclosure, POE
Sales Code: 1DR-POE

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: SUB-PRO

ENTERPRISE - Unlimited Readers / Doors, Advanced Features
Sales Code: SUB-ENT

Optional - USB Enrolment Reader
Sales Code: IA-DTR

* Requires Pro or Enterprise Subscription

Quote Builder

Identity Access

Part Numbers	Lite	Professional	Enterprise
One-time Purchase	IA-LITE	IA-PRO	IA-ENT
Annual Subscription - Required for HID Wallet Pass	N/A	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	■	■	■
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).

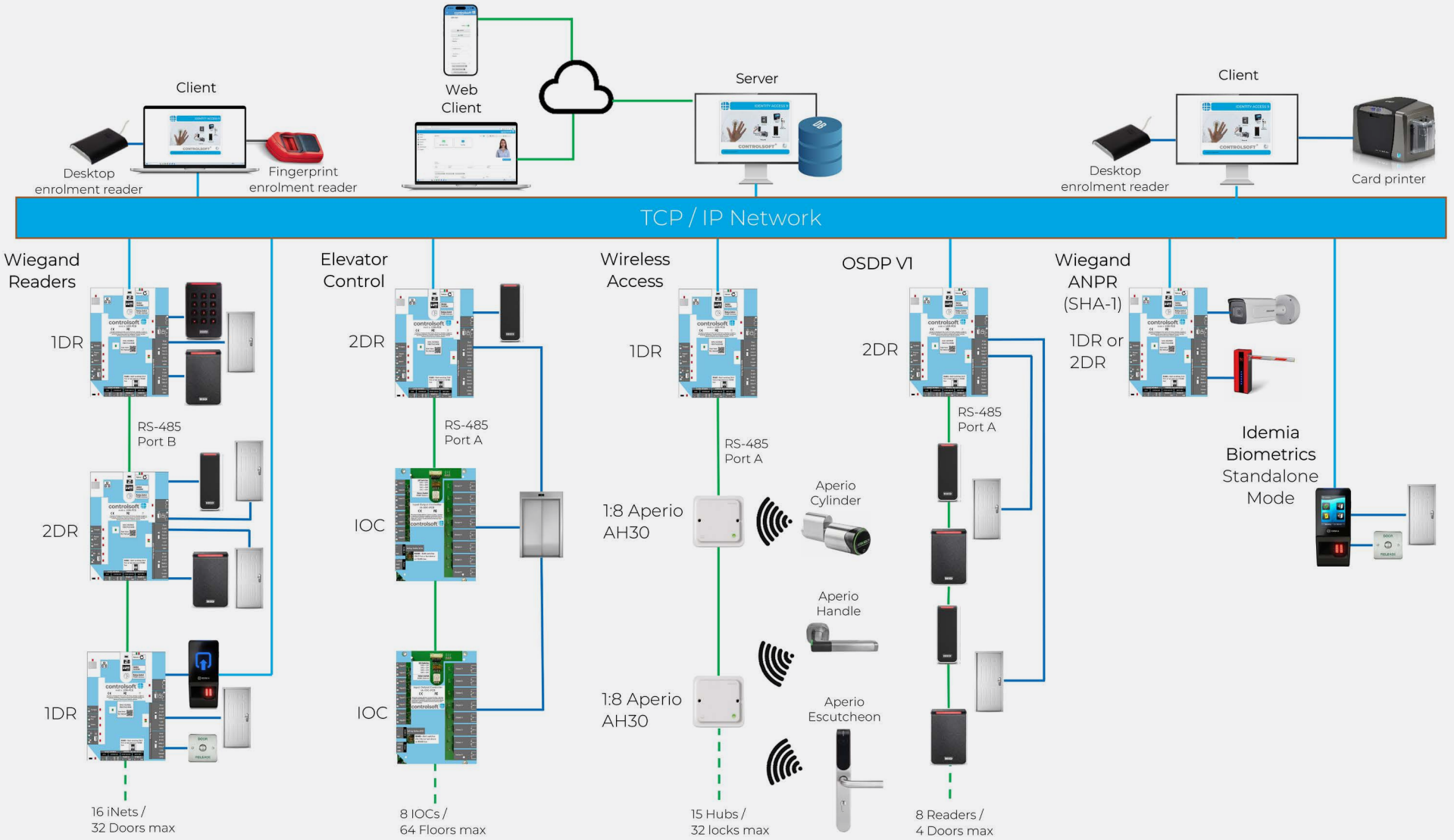
Features	Lite	Professional	Enterprise
Fire Alarm Roll Call Report	X	■	■
HID Wallet Mobile Access**	X	■	■
Site Lockdown	X	■	■
Wiegand ANPR Integration (SHA-1 26-bit)	X	■	■
Time & Attendance Reporting	X	■	■
Fingerprint Enrolment	X	■	■
Direct Integration with Morpho Biometric readers	X	■	■
Email Notifications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

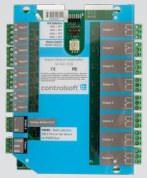
Server	Client	Supported Operating Systems
Intel i5 processor @ 3GHz	Intel i3 processor @ 3GHz	Windows 10 Home or Pro (x64)
8GB RAM	4GB RAM	Windows 11
100GB Free Disk Space	100GB Free Disk Space	Windows Server 2016
10/100 Network Card	10/100 Network Card	Windows Server 2019
USB Port	USB Port	Windows Server 2022
Screen Resolution = 1024 x 800 or higher	Screen Resolution = 1024 x 800 or higher	Windows Server 2025

Identity Access Server / Client Configuration



Identity Access 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 (mm)	175 x 138 x 25	175 x 138 x 25	175 x 138 x 25
Warranty		3 Years	

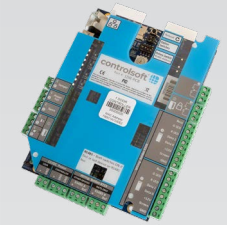
MAXIMUM NUMBER OF RS485 DOWNSTREAM DEVICES

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	1DR-PCB	2DR-PCB	IOC-PCB
Metal housing with 2A PSU	1DR-ACU	N/A	IOC-ACU
Metal housing with 4A PSU	N/A	2DR-ACU	N/A
Metal housing with 3A Smart POE++	1DR-POE	2DR-POE	IOC-POE



PCB Only

Dimensions: 175 x 138 x 25mm

Weight: 0.35Kg

Metal Enclosure with PSU

Dimensions: 380 x 335 x 95mm

Weight: 3.6Kg

Metal Enclosure with POE

Dimensions: 380 x 335 x 95mm

Weight: 3.6Kg

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 (mm)	45 x 121.5 x 19.5	45 x 121.5 x 21.5	80 x 121.5 x 19.5	80 x 121.5 x 21.5	80 x 122.5 x 24.5	60 x 60 x 12	86 x 142 x 26	95 x 70 x 20
Weight (g)	95	110	140	160	164	27	345	135
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 (mm)	40 to 100 (13.56MHz), 60 to 100 (125KHz)						10 to 20	40 to 70
Warranty	Limited Lifetime						1 year	2 years

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 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

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

* 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

Wireless Readers

	Cylinder (C100)	Escutcheon (E100)	Handle (H100)	Monitored Handle / Lock Set (L100)	Locker/Cabinet Lock (KL100)	Server Cabinet Lock (KS200)
Part Number	AP-50520190-	AP-5001-	AP-H100-	AP-AL560-	AP-KL100	AP-KS200
Technology	SEOS / iCLASS / MIFARE / DESFire					
HID Mobile Access	Yes	Yes	Yes	Yes	Yes	Yes
Read Range (mm)	30			10	40	30
Dimensions (mm)	Euro Profile Cylinder	40 x 315 x 20	87 x 87 x 21	54 x 350 x 21	82.5 x 63 x 58.5 82.5 x 63 x 75	25 x 150
Weight	250g	1.5Kg	500g	1.7Kg	250g	500g
Power Requirements	Lithium Battery					12/24V (470mA @ 12V)
Warranty	2 years (Electronics), 1 Year (Mechanics)					

* The L100 can be used Outdoors providing that the door opens INTO the building.

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 (mm)	82 x 82 x 37	82 x 82 x 37	N/A	40 x 20 x 10
Weight	75g	75g	N/A	10g
Power Requirements	8 – 24V dc	8 – 24V dc	N/A	USB
Output Format	Wiegand	RS485	N/A	Wireless
Warranty	2 years (Electronics), 1 Year (Mechanics)		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	HID-3350			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-T105	App-Based, 5 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							

Controlsoft® Proximity (125KHz) - Readers

	Desktop Reader	RS485 Prox	Prox Reader	Vandal Prox	Panel Mount Prox	Mullion Reader	Backbox Reader	Pin & Prox Reader
Part Number	IA-DTR	AC-1100	AC-1200	AC-1201	AC-1202	RX-400	RX-100	RX-1K00
Read Range (mm)	40–70	80	80	80	80	100	120	120
Dimensions (mm)	95 x 70 x 20	120 x 42 x 22	120 x 42 x 22	93 x 93 x 26	60 x 60 x 16	96 x 52 x 21	87 x 87 x 21	87 x 87 x 21
Weight	135g	150 g	150 g	800g	150 g	90g	120	125g
Power Requirement	USB	12Vdc	12Vdc	12Vdc	12Vdc	5 - 16Vdc	5 - 16Vdc	5 - 16Vdc
Current Requirement	N/A	100 mA	100 mA	100 mA	100 mA	250mA typical	250mA typical	250mA typical
Termination	USB Cable	Terminal Strip	Pigtail	Pigtail	Pigtail	Terminal Strip	Terminal Strip	Terminal Strip
Output Format	USB	RS485	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand
Indoor/Outdoor	Indoor	Both	Both	Both	Both	Both	Both	Both
Additional Technologies	N/A	N/A	N/A	N/A	N/A	MIFARE (RX-480)	MIFARE (RX-180)	MIFARE (RX-1K80)
Colour	Black	Black	Black	Stainless Steel (316)	N/A	Black	Black	Black
Warranty	2 Years	2 Years	2 Years	2 Years	2 Years	5 Years	5 Years	5 Years

Controlsoft® Proximity (125KHz) - Cards / Tags

	Clamshell	ISO Prox	ISO Mag Prox	Keyfob	Thin Keyfob	Sticker Tag
Part Number	AC-7080	AC-7100	AC-7130	AC-7101	AC-7102	AC-7103
Magnetic Stripe	No	No	Yes	No	No	No
Printable	No	Yes	Yes	No	No	No
Slot Punch	Vertical	Optional	Optional	No	No	No
Warranty	Lifetime					

Controlsoft Prox

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	40 to 70 mm					205 mm	40 to 70 mm	
Dimensions (mm)	95 x 70 x 20	80 x 45 x 15	150 x 45 x 20	120 x 75 x 15	125 x 125 x 25	127 x 127 x 25.4	135 x 70 x 35	305 x 305 x 25
Weight	135g	100 g	225 g	210 g	275 g	275 g	335 g	1440 g
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

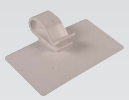
	ProxCard II	ISO Prox II	Duo Prox II	iCLASS Prox	Prox Key III	MicroProx Tag	ProxPass II
Part Number	HID-1326	HID-1386	HID-1336	HID-2120	HID-1346	HID-1391	HID-1351
Magnetic Stripe	No	No	Yes	Optional	No	No	No
Printable	No	Yes	Yes	Yes	No	No	No
Slot Punch	Vertical	Optional	Optional	Optional	No	No	No
Warranty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

HID Prox

Other Technology - Readers

	Magstripe		RF	Long Range		Iris
Part Number	AX-5232	AX-5233	RF (868MHz) Reader	LR-2200	HID-U90	iA1000
Output Format	Clock & Data	Wiegand	Wiegand	Wiegand	Wiegand / OSDP	Wiegand
Dimensions (mm)	113 x 42 x 35	113 x 42 x 35	116 x 44 x 22	203 x 203 x 28.6	231 x 231 x 70	188 x 199 x 34
Weight	300g	300g	150g	1.04Kg	1.2Kg	810g
Power Requirement	5 - 16 Vdc	5 - 16 Vdc	12 Vdc	12 Vdc	12 – 24 Vdc	24V or PoE+
Current Requirement	50 mA	50 mA	200 mA	1A	400mA @ 12V	2A
Termination	Pigtail	Pigtail	Pigtail	Pigtail	Terminal	Terminal
Tamper	No	No	No	No	Optional	Yes
Indoor/Outdoor	Both	Both	Both	Both	Both	Indoor
Warranty	1 Year	1 Year	2 Years	1 Year	2 Years	1 Year

Other Technology - Credentials

	2 Button Transmitter (868 MHz)	**4 Button Transmitter (868 MHz)**	**LR-2200 Windshield Tag**	**LR-2200 Hang Tag**	**LR-2200 Hang Tag**	**UHF**	**UHF/Mifare 4K**	**UHF/iCLASS 32K (16K/2)**	**UHF/iCLASS 32K (16K/16)**
									
Part Number	AC-7302	AC-7304	AW-WS	AW-HT	AW-VT	HID-600	HID-603	HID-6013	HID-6014
Read Range	Up to 20 metres	Up to 20 metres	3 to 5 meters	3 to 5 meters	3 to 5 meters	N/A			
Printable	N/A	N/A	No	No	No	Yes			
Slot Punch	N/A	N/A	No	No	No	No			
Warranty	2 Years	2 Years	1 Year	1 Year	1 Year	Lifetime			

IDEMIA
augmented identity

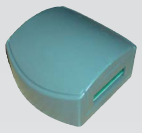
Idemia Fingerprint

	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 (mm)	70 x 40 x 15	90 x 80 x 55	153 x 151 x 58.5	156 x 68 x 62	156 x 68 x 62	250x152x216	250x152x216	325x143x110	210 X 102 X 35
Weight	100g	200g	470g	280g	280g	2.2Kg	2.2Kg	2.1kg	0.8kg
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)								

Card Printers

	Magicard		Fargo				
	300	**600**	**DTC1250e**	**DTC4250e**	**DTC4500e**	**HDP5000e**	**HDP6600**
Base Part Number	3300-0001/3	3652-5001/3	FG-50000	FG-52000	FG-55000	FG-96600	FG-94600
Print Method	Colour dye sublimation	Colour dye sublimation	Dye-sublimation	Dye-sublimation	Dye sublimation	Retransfer	Resin Thermal Transfer
Print Speed	23 seconds per card	19 seconds per card	16 seconds YMCKO single side	16 seconds YMCKO single side	16 seconds YMCKO single side	Up to 29 seconds YMCK with transfer, single side	Up to 16 seconds YMCK with transfer, single side
Input Hopper	100	100	100	100	200	100	100
Output Hopper	70	70	FG-50000: Up to 30 cards FG-50100: Up to 100 cards	100	100	200	200
Reject Hopper	No	No	N/A	100	100	N/A	N/A
Double Sided	Option	Option	FG-50100	FG-52100	FG-55100	FG-96640	Optional
Lamination	No	No	No	No	Optional card lamination module – single-sided or dual-sided (simultaneous)	Optional card lamination module – single-sided or dual-sided (simultaneous)	Optional
Encoding Options	Encoders for magstripe and Smart cards available	Encoders for magstripe and Smart cards available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoder for magstripe and Smart cards are available
Simultaneous Printing & Encoding	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interface	USB 2.0, USB 3.0 and Ethernet	USB 2.0, USB 3.0, Ethernet and WiFi	USB Ethernet: FG-50020 / FG-50120	USB and Ethernet	USB and Ethernet	Ethernet	USB and Ethernet
Card Sizes	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80	CR-80
Printer / Printhead Warranty	3 years	3 years	3 Years / 3 Years	3 Years / 3 Years	3 Years / 3 Years	4 Years / Lifetime	3 Years / Lifetime
Card Cleaning	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Replaceable Cleaning Roller
Dimensions (mm) H x W x D	242 x 215 x 408	248 x 211.5 x 475.5	Single-sided: 224 x 348 x 201 Dual-sided : 249 x 475 x 234	Single-sided: 249 x 460 x 234 Dual-sided: 249 x 475 x 234	Single-sided: 249 x 460 x 234 Dual-sided: 249 x 475 x 234 Printer + Lam: 480 x 475 x 234	Single Sided: 292 x 311 x 235 Dual Sided: 292 x 394 x 235 Dual Sided + Lam: 324 x 762 x 235	Single Sided: 330 x 368 x 305 Dual Sided: 330 x 502 x 305

Standalone Access Control Units

	Keypad Prox	All-in-One Mullion	All-in-One Vandal	All-in-One Panel Mount	 All-in-One RF Receiver	Solo Mullion	Solo Vandal	Solo Panel Mount
Part Number	KP-800	AC-3100	AC-3101	AC-3102	AC-7200	AC-3210	AC-3210-V	AC-3210-P
Prox Reader Included	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
Max Number of Users	1000	30	30	30	10 (unique)	999	999	999
Max Number of Doors	1	1	1	1	1	1	1	1
Max Number of Readers	1	1	1	1	N/A	2	2	2
Master Card Programming	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Door Monitoring Alarm	Yes	No	No	No	No	Yes	Yes	Yes
Fire Alarm Input	No	No	No	No	No	Yes	Yes	Yes
Lock Relay Modes	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse	Pulse	Pulse
Aux Relay for Alarm	Yes	No	No	No	No	Yes	Yes	Yes
Time Schedules	No	No	No	No	No	No	No	No
Access Event Log	No	No	No	No	No	No	No	No
Web Browser Interface	No	No	No	No	No	No	No	No
Dimensions (mm)	120 x 76 x 20	120 x 42 x 22	93 x 93 x 26	60 x 60 x 16	64 x 70 x 34	Cont: 150 x 100 x 30 Reader: 75 x40 x 14	150 x 100 x 30 93 x 93 x 26	150 x 100 x 30 60 x 60 x 16
Power Requirement	12vdc 50mA	12vdc 100mA	12vdc 100mA	12vdc 100mA	12/24v 35mA	12vdc 700mA	12vdc 700mA	12vdc 700mA
Warranty	1 Year	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years
Cards / Tags	Controlsoft Proximity. Most popular tag is AC-7101				868MHz RF Transmitter	Controlsoft Proximity. Most popular tag is AC-7101		

Additional readers for Solo Controller

AC-3212 Vandal Resistant Reader

Marine Grade 316 Stainless Steel for outdoor use.

AC-3213 Panel Mount Reader

Industry Standard mounting footprint

AC-3214 Mullion Reader

Versatile and attractive

Standalone Control Units

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), 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.

Corporate Office:
Controlsoft Limited
Security House, 82C Chesterton Lane,
Cirencester, Gloucestershire, GL7 1YD
Tel: +44 (0)1451 844896
Email: sales@controlsoft.com

South Africa Office:
Controlsoft (Pty) Ltd
Block 1, Pendoring Office Park,
299 Pendoring Road, Blackheath, Randburg, 2195
Tel: +27 (0)11 792 2778
Email: zasales@controlsoft.com

US Office:
Controlsoft Access Inc
811 Boyd Ave., Suite 205, Pittsburgh, PA 15238
Tel: +1 800 340 1407
Email: namsales@controlsoft.com

www.controlsoft.com

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