

# APOLLO Hardware

## MAG STRIPE READERS & ACCESSORIES

### Indoor Readers

Model #	Part #	Description
AI-400	401-000	Magnetic swipe reader, Wiegand output (black color)
AI-400	401-001	Magnetic swipe reader, Wiegand output (beige color)
AI-410	411-000	16 position backlit keypad, Wiegand output (black color)
AI-410	410-001	16 position backlit keypad, Wiegand output (beige color)
AI-500	401-100	Reader with 4 line, 64 character (4x16) LCD display and local database
AI-500-2	401-102	AP-500 (DOE version)
AI-501	401-110	OEM reader with Wiegand output
AI-502	401-120	OEM reader with Wiegand output and keypad
AI-510	401-130	System slave reader with RS-485
AI-520	401-140	System slave reader with RS-485 and keypad
AI-530	401-150	Stand-alone single-door reader/controller with RS-232 port and time controlled functions
AI-550	401-160	Stand-alone 34-door reader/controller with display and 3 serial ports
AI-600	401-180	Reader with 128 x 64 pixel graphics display

### Outdoor Readers

Model #	Part #	Description
AP-400	400-000	Magnetic swipe reader, Wiegand output (black color)
AP-400	400-001	Magnetic swipe reader, Wiegand output (beige color)
AP-410	410-000	16 position backlit keypad, Wiegand output (black color)
AP-410	410-001	16 position backlit keypad, Wiegand output (beige color)
AP-500	400-100	Reader with 4 line, 64 character (4x16) LCD display and local database
AP-500-2	400-102	AP-500 (DOE version)
AP-501	400-110	OEM reader with Wiegand output
AP-502	400-120	OEM reader with Wiegand output and keypad
AP-510	400-130	System slave reader with RS-485
AP-520	400-140	System slave reader with RS-485 and keypad
AP-530	400-150	Stand-alone single-door reader/controller with RS-232 port and time controlled functions
AP-550	400-160	Stand-alone 34-door reader/controller with display and 3 serial ports
AP-600	400-180	Reader with 128x64 pixel graphics display

### Elevator Control Readers

Model #	Part #	Description
AP-511	400-700	Magnetic stripe elevator reader
AP-521	400-710	Magnetic stripe elevator reader with keypad
AEL-12	400-720	8 floor elevator control module (12 volt input)
AEL-24	400-730	8 floor elevator control module (24 volt input)

### Card Reader Electronics Only

Model #	Part #	Description
AP-500E	400-101	(No Display)
AP-500EHK	400-104	(No Display) For use with HID keypad
AP-500-2E	400-111	(No Display)
AP-501/502E	400-121	
AP-510/520E	400-141	
AP-530E	400-151	
AP-550E	400-161	(No Display)
AP-550EHK	400-164	(No Display) For use with HID keypad

### Finishes

The AP-400 card reader and its companion AP-410 keypad are precision molded in high-impact, UV resistant, thermoplastic. These are available in black or beige with color-coordinated overlays. The AP-400/410 mounting plates, AMP-1/-2/-3/-4, are brush finish stainless steel. The AP-400/410 surface mounting box is finished in metallic gray.

The AP-500 series and AP-600 readers have die-cast aluminum enclosures which are available in a variety of finishes. Use the table below to specify the finish. When ordering, add the finish number selected as a dash number immediately following the part number.

Finish Number	Finish	Outdoor Use
0	Black Powder Coat	Yes
1	Beige Powder Coat	Yes
2	Gray Powder Coat	Yes
3	Clear Coat	No
4	Chrome Plated	No
5	Antique Brass Plated	No
6	Polished Brass Plated	No

### Custom Overlays

Apollo offers custom overlays using OEMs artwork. Customer must provide camera-ready logo artwork.

### Weather Shields

Model #	Part #	Description
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AWS-10	400-990	Plexiglas weather shield, Clear
AWS-20	400-991	Plexiglas weather shield, Smoke
AWS-30	400-992	Metal weather shield, metal, Gray
AWS-31	400-993	Metal weather shield, metal, Black

### Mounting Hardware

Model #	Part #	Description
AMP-1	400-600	Mounting plate for installing an AP-400 reader or AP-410 keypad on a single gang electrical box..
AMP-2	400-610	Mounting plate for installing an AP-400 reader or AP-410 keypad on a double gang electrical box, or ABX-5 surface mount box
AMP-3	400-620	Mounting plate for installing an AP-400/AP-410 pair on a double gang box, or on an ABX-5 box
AMP-4	400-630	Mounting plate for installing AP-501/502/510/520/530 card readers (small readers) on a single-gang electrical box
ABX-1	400-640	Surface mount box for AP-500/550/600 readers (large reader)
ABX-2	400-650	Surface mount box for small metal readers
ABX-3*	400-660	Special, deep, sealed, mounting box for large metal readers
ABX-4*	400-670	Special, deep, sealed, mounting box for small metal readers
ABX-5	400-680	Surface mounting back box for AP-400, AP-410, or both. Requires AMP-2 or AMP-3

\*Minimum order quantity 25.

Mounting hardware for the AP-500 series and AP-600 may also be ordered with the reader, selected as an extension of the base reader part number. Add 'P' (plate), 'B' (box), 'D' (deep box), or 'N' (none), after the finish number.

Mounting plates are brush finish stainless steel. Mounting boxes are available only in metallic gray finish.

The AP-500, AP-600, and AP-550 mount directly to a single-gang box. No additional mounting plate is required.

### Spare Read Heads

Model #	Part #	Description
ARH-10	400-500	Upgrade over standard read heads (4 million pass read head)
ARH-11	400-501	Read head assembly standard (1 million passes)
ARH-12	400-502	Read head assembly extended wear (4 million passes)

When ordering card readers, an extended wear read head (4 million passes) may be ordered by adding 'X' at the end of the card reader's part number.

### Spare Reader Enclosures

	Small	Large
Finish	Part Number	Part Number
Black	400-960	400-970
Beige	400-961	400-971
Gray	400-962	400-972
Clear	400-963	400-973
Chrome	400-964	400-974
Antique Brass	400-965	400-975
Polished Brass	400-966	400-976

### Spare Overlays/Keypads

Model #	Part #	Description
AOL-400	400-910	Black/Gold for AP-400
AOL-401	400-911	Beige/Brown for AP-400
AOL-410	400-912	Black/Gold for AP-410
AOL-411	400-913	Beige/Brown for AP-410
AOL-510*	400-920	Gray/Charcoal for AP-502/520/530 gray, clear and chrome readers
AOL-511*	400-921	Black/Gold for AP-502/520/530 polished brass, antique brass or black readers
AOL-512*	400-922	Beige/Brown for AP-502/520/530 beige readers
AOL-520	400-930	Gray/Charcoal for AP-501/510 gray, clear and chrome readers
AOL-521	400-931	Black/Gold for AP-501/510 polished brass, antique brass or black readers
AOL-522	400-932	Beige/Brown for AP-501/510 beige readers
AOL-550*	400-940	Gray/Charcoal for AP-500/550 gray, clear and chrome readers
AOL-551*	400-941	Black/Gold for AP-500/550 polished brass, antique brass or black readers
AOL-552*	400-942	Beige/Brown for AP-500/550 beige readers
AOL-600*	400-950	Gray/Charcoal for AP-600 gray, clear and chrome readers
AOL-601*	400-951	Black/Gold for AP-600 polished brass, antique brass or black readers
AOL-602*	400-952	Beige/Brown for AP-600 beige readers

\*Includes keypad.

### Reader Order Number Configuration

Reader	Part No.	Finish	Mounting Hardware	Read Head
(AP-xxx)	(400-XXX)	(0-6)	(P, B, D, N)	(S, X)

Example 1: A chrome plated AP-510 with mounting plate (AMP-4) and standard read head

AP-510 400-130-4 -P-S

Example 2: A gray AP-600, with no additional mounting hardware, and standard read head.

AP-600 400-180-2 -N-S

Example 3: An AP-520, with mounting plate (AMP-4), finished in antique brass, with an extended wear read head.

AP-520 400-140-5 -P-X

### Mag Stripe Reader Cleaning Cards

Model #	Part #	Description
ACC-10	400-900	50 cleaning cards per box (1 box minimum order)

(Required for outdoor readers & dusty environments) Extends life of read heads

### Digital Door Strike Control Units

Model #	Part #	Description
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ADA-10	400-400	Potted digital receiver module for secure control of door strikes and other remote loads. Must be used with AP-5xx/AP-600 card readers (except AP-530)
ADA-11	400-401	New digital receiver module with switch address (not potted). Has CE Approval
AKM-10	400-410	Relay module for use with AP-530 and as Aux output for the APN-10/20, SPDT 5A contacts

## INFRARED READERS

### Infrared Readers

Model #	Part #	Description
AP-IRT	402-000	Transmitter
AP-IRC	402-010	Receiver, Standard range (10 m / 30 ft)
AP-IRC-E	402-011	Receiver, Extended range (15 m / 45 ft)
AP-IRC-W	402-012	Receiver, Wide Angle range (10 m / 30 ft)

## CONTROLLERS

### Standalone Prox Controller

Model #	Part #	Description
APN-10	480-050	Single door standalone Prox controller, uses prox keypad reader with keypad for programming or requires AP-410 keypad for programming when used with prox reader without keypad
APN-10K	480-051	Complete standalone kit for single door applications. Comes with UPS in enclosure, AP-410 programming keypad, Prox Point reader and APN-10 controller, 115V
APN-10KI	480-052	Complete standalone kit for single door applications. Comes with UPS in enclosure, AP-410 programming keypad, Prox Point reader and APN-10 controller, 230V
APN-20	480-060	Single door standalone Prox controller, uses prox reader without keypad and requires non intelligent 3x4 matrix keypad
APN-30	480-070	Two door or single door (entry/exit) Prox controller, standalone or with Windows 95/98 (ASW-30) software. Uses readers with Wiegand output (Proximity, biometrics, AP-400, AP-502 etc.) In standalone mode requires AP-410, AP-502 or Prox reader with keypad for programming
APN-30K	480-071	Kit includes APN-30 standalone 1 or 2 door controller, Prox Point (1), 115V @ AUS-12 (UPS 12V with battery and enclosure) and AP-410 for programming
APN-30KI	480-072	Kit includes APN-30 standalone 1 or 2 door controller, Prox Point (1), 230V @ AUS-121 (UPS 12V with battery and enclosure) and AP-410 for programming

### APN Additional Options:

Model #	Part #	Description
	480-317	ProxPoint proximity reader
ASW-30	450-030	Windows 95/98 access control software supports the APN-30 one or two door access control system. The software supports all features of the APN-30 standalone system, and in addition supports system and cardholder configuration via user-friendly Windows 95/98 interface. The ASW-30 supports reception/display and storage of on-line events, time and attendance report and recall of events using cardholder's name, employee number and reader over a user specified time interval. It also supports anti-passback and all features of the APN-30 system

### Access/Alarm Multiplexers & Memory Expansion Modules

Model #	Part #	Description
AAN-32	430-102	Alarm/Access multiplexer (1 MB memory) Single device port, supports 32 devices
AAM-20	430-010	Access/Alarm multiplexer. Supports up to 20 devices
AAM-20T	430-011	AAM-20 with 4 RS-485 communication line terminators
AAM-80	430-020	Access/Alarm multiplexer. Supports up to 80 devices
AAM-80T	430-021	AAM-80 with 10 RS-485 communication line terminators
A80-PRM	430-030	PROM Set for AAM-80/20
AIM-4	430-300	4 door Reader Interface Module
AIM-4SL	430-400	4 door Reader Interface Module with supervised inputs & downloadable database (includes ASM-48 plug-in host or device RS-485 driver)
ATM-48	470-030	Terminator for RS-485 (2 per line required)

### Memory Expansion Modules for AAM-20/80 (Modules and chip set )

Model #	Part #	Description
AAX-02	430-200	256 Kbyte RAM
AAX-05	430-201	512 Kbyte RAM
AAX-10	430-202	1 Mbyte RAM
AAX-20	430-203	2 Mbyte RAM
AAX-40	430-204	4 Mbyte RAM

### Memory Expansion Upgrade Kits. Chip set only. Requires AAX-02, AAX-05 or AAX-10 Memory Module

Model #	Part #	Description
AXU-10	430-210	Upgrade AAX-02 to AAX-05
AXU-20	430-220	Upgrade AAX-02 to AAX-10
AXU-30	430-230	Upgrade AAX-02 to AAX-20
AXU-40	430-240	Upgrade AAX-05 to AAX-10
AXU-50	430-250	Upgrade AAX-05 to AAX-20
AXU-60	430-260	Upgrade AAX-10 to AAX-20

NOTE: Refer to Appendix 1 for cardholder memory requirements.

### AAN-100 Controller & Memory Expansion Modules

Model #	Part #	Description
AAN-100	430-100	Alarm/Access network controller (1 Mbyte) Requires interface and drivers (1-4) below

ANI-1	430-110	Direct Network interface, Ethernet (10 Base T & AUI)
ASI-1	430-130	High speed serial interface, dual port (Requires 1 or 2 RS-232/485 drivers)
ASM-23	430-131	Plug-in host or device RS-232 driver
ASM-48	430-132	Plug-in host or device RS-485 driver
AME-10	430-150	1 Mbyte RAM module
AME-20	430-160	2Mbyte RAM module

NOTE: Four memory slots allow up to 8 MB of RAM using the AME-20 module. Refer to appendix 1 for cardholder memory requirements.

## ALARM PRODUCTS

### Alarm Input Panels & Status Panels

Model #	Part #	Description
APA-16	420-000	16 Zone Alarm Module
APA-15	420-010	15 Zone Supervised Alarm Module
APA-15D	420-012	15 Zone (DOE)
APA-15T	420-011	APA-15 with alarm zone terminators
APD-16	420-020	16 Zone Digital Alarm Input Module
ARM-16	420-100	16 Relay Output Module, 24 Vdc
ARM-16	420-101	16 Relay Output Module, 12 Vdc
AIO-168	420-168	Analog Input Alarm Module, supports 16 supervised Inputs and 8 outputs
AIO-16	420-160	16 Supervised Inputs
AIO-8	420-008	8 form C dry contact relay outputs
ATM-30	470-031	Alarm zone terminator for APA-15 (standard)
ATM-BMS	470-035	Alarm zone terminator for APA-15, BMS
ATM-3D	470-032	Alarm zone terminator for APA-15, DOE
ATM-SRS	470-036	Alarm zone terminator for APA-15, series
ATD-16	470-033	Digital terminator for APD-16
ASA-72	420-600	Status Annunciator Panel, 115VAC, in enclosure with lock and tamper switch
ASA-72I	420-601	Same as ASA-72, except 230VAC
ASA-72D	420-602	Status Annunciator Panel. ASA-72 module in enclosure with lock, tamper switch, and 24Vdc input DC to DC converter for UPS operation. Requires APU-24P
ASA-72EO	420-610	Status annunciator electronics only

## POWER SUPPLIES, ENCLOSURES

### Apollo Products Typical Power Requirements

AP-400	10mA	@	6 to 24 Vdc	AP-410	10mA	@	6 to 24 Vdc
AIM-4	250mA	@	6 to 24 Vdc	AAM-16	125mA	@	6 to 24 Vdc
APA-16	200mA	@	6 to 24 Vdc	AAM-20	750mA	@	5 Vdc
APA-15	350mA	@	24 Vdc	AAM-80	1A	@	5 Vdc
ARM-16	200mA	@	12 Vdc	API-xx	70mA	@	12 to 24 Vdc
AAN-100	750mA	@	13.6 to 28 Vdc	APN-10/20	60mA	@	6 to 24 Vdc
AAN-100 with ANI	250mA	@	13.6 to 28 Vdc	APN-30	90mA	@	6 to 24 Vdc
AAN-100 with ASI	175mA	@	13.6 to 28 Vdc				
AP-510/520	75mA	@	6 to 24 Vdc				

### Transformers

Model #	Part #	Description
APS-18	460-030	115VAC input, 18VAC 1.0A output for AAM-16, wall plug type, use with AIM-4
APS-18 I	460-031	Same as APS-18, except 230VAC input, use with AIM-4

### Power Supplies, UPS, Enclosures

APS-12	460-000	115VAC input, 12Vdc 1.7A output, regulated power supply with switch, fuse, mounting bracket and terminal strip.
APS-12 I	460-001	Same as APS-12, except 230VAC input
APS-24	460-100	115VAC input, 24Vdc 1.2A output, regulated power supply with switch, fuse, mounting bracket and terminal strip.
APS-24 I	460-101	Same as APS-24, except 230VAC input
APS-05	460-120	115VAC input, 5Vdc 3A output, regulated power supply with switch, fuse, mounting bracket and terminal strip.
APS-05 I	460-121	Same as APS-05, except 230VAC input
APS-05D	460-122	DC-DC converter, 24Vdc to 5Vdc 2A - with mounting kit
ASE-05	420-200	Enclosure with lock, tamper switch and regulated power supply. Power supply has switch, fuse, mounting bracket, and terminal strip. 115VAC input, 5Vdc 3A output for AAM. AAM-20/80 module mounts inside. Dimensions are 16 x 16 x 5 inches
ASE-05 I	420-201	Same as ASE-05, except 230VAC input
ASE-05D	420-250	Enclosure with lock, tamper switch and regulated power supply. DC to DC converter 24 Vdc input, 5 Vdc output 2 Amp. AAM-80/20 module mounts inside. Dimensions are 16 x 16 x 5 inches
ASE-12	420-300	Enclosure with lock, tamper switch, and regulated power supply. Power supply has switch, fuse, mounting bracket, and terminal strip. 115VAC input, 12Vdc 1.7A output. APA and ARM-16 mount inside. Dimensions are 16 x 16 x 5 inches
ASE-12 I	420-301	Same as ASE-12, except 230VAC input power supply
ASE-24	420-400	Enclosure with lock, tamper switch, and regulated power supply. Power supply has switch, fuse, mounting bracket, and terminal strip. 115VAC input, 24Vdc 1.2A output. APA and ARM-16 mount inside. Dimensions are 16 x 16 x 5 inches
ASE-24 I	420-401	Same as ASE-24, except 230VAC input
APU-05	460-130	230/115VAC input, 5Vdc (for the AAM) and 24Vdc 1.8A output, regulated uninterruptible power supply/battery charger. Includes DC to DC converter in enclosure with tamper switch, lock, mounting bracket, fuse, terminal strip and power switch. AAM-20/80 module mounts inside. (No batteries) Dimensions are: 16 x 16 x 5 inches
APU-05N	460-135	Same as APU-05 except no enclosure
APU-5/12	460-180	230/115VAC input, 5Vdc (for the AAM-20/80) and 12Vdc 2.75A output, regulated uninterruptible power supply/battery charger. Includes DC to DC converter in enclosure with tamper switch, lock, mounting bracket, fuse, terminal strip and power switch. AAM-20/80 module mounts inside. (No batteries) Dimensions are: 16 x 16 x 5 inches

APU-5/12N460-185	Same as APU-5/12 except no enclosure
APU-12 460-040	230/115VAC input, 12Vdc 3.0A output, regulated uninterruptible power supply/battery charger in enclosure with lock, power switch, fuse, tamper switch and one battery tray (No batteries). APA-15/16, AAM-16, AIM-4 and AAN-100 mount inside. Dimensions are: 16 x 16 x 5 inches
APU-12N 460-045	Same as APU-12 except no enclosure
APU-24P 460-140	230/115VAC input, 24Vdc 2.0A output, regulated uninterruptible power supply/battery charger in enclosure with lock, power switch, fuse and tamper switch. (No batteries) APA-16 and AAM-16 mount inside. Dimensions are: 16 x 16 x 5 inches
APU-24R 460-150	230/115VAC input, 24Vdc 2.0A output, regulated uninterruptible power supply/battery charger in enclosure with lock, power switch, fuse and tamper switch. Recommended for all Apollo card readers. Includes 1 battery tray. Dimensions are: 16 x 16 x 5 inches
APU-24N 460-155	Same as APU-24P except no enclosure
ABT-12 460-050	Single battery pack for ABE-20, 12AH each
ABT-24 460-160	Dual battery pack for ABE-20, 12AH each
ATY-10 460-165	Battery tray
ABE-20 460-170	Enclosure with lock, tamper switch and (2) battery trays
APE-20 420-500	Enclosure with lock and tamper switch
AUS-12 460-070	115VAC input/12 Vdc 2Amp output UPS in enclosure with 5 Ah battery, power indicator, the API fits inside, perfect as UPS for all Apollo readers
AUS-12I 460-071	230VAC input/12 Vdc 2 Amp output UPS in enclosure with 5 Ah battery, power indicator, the API fits inside, perfect as UPS for all Apollo readers

NOTE: All enclosures are finished in Apollo gray.

## DEMO CASES

### Demo Cases

Model #	Part #	Description
ADC-3	440-503	AP-550/501, 2 door system with ASW-68 demo software and AP-530 single door system, 115VAC.
ADC-3I	440-504	Same as ADC-3, except 230VAC
ADC-16	440-516	Sixteen door system including the following: ASW-32 demo software, 3 door operation using: AP-501/502, combination AP-400/410, APA-16 alarm panel, AAM-16 controller, AIM-4 interface module, and APS-12 power supply. All components are mounted in an aluminum demo case with switches for alarms/door position and LEDs for output. 115VAC
ADC-16 I	440-517	ADC-16 for 230VAC
ADC-34	440-534	AP-550/501/520 RS-485 readers, ASW-68 demo software for 34 door system. 115VAC
ADC-34I	440-535	ADC-34 for 230VAC
ADC-40	440-540	AP-500, AP-501/502, AAM-20, APA-16 alarm panel, ASW-95 demo software, ARM-16 relay module, AIM-4 interface module, AEL-12 interface module, 5Vdc and 12Vdc power supplies with connector for host. All components are mounted in an aluminum demo case with switches for alarms/door position and LEDs for outputs. 115VAC.(Includes reusable padded demo case shipping container)
ADC-40I	440-541	ADC-40 for 230VAC
ADC-41	440-542	AP-500, AP-501/502, AAN-100, APA-16 alarm panel, ASW-95 demo software, ARM-16 relay module, AIM-4 interface module, AEL-12 interface module, 5Vdc and 12Vdc power supplies with connector for host. All components are mounted in an aluminum demo case with switches for alarms/door position and LEDs for outputs. 115VAC (includes reusable padded demo case shipping container)
ADC-41I	440-543	ADC-41 for 230VAC
ADC-50	440-550	ADC-40 with HID MiniProx MP5365 replacing AP-501
ADC-50I	440-551	ADC-50 for 230VAC
ADC-51	440-552	ADC-41 with HID MiniProx MP5365 replacing AP-501
ADC-51I	440-553	ADC-51 with 230VAC
ADC-60	440-560	ADC-41 with Motorola ASR-503 replacing AP-501
ADC-60I	440-561	ADC-60 for 230VAC
ADC-61	440-562	ADC-41 with Motorola ASR-503 replacing AP-501
ADC-61I	440-563	ADC-61 for 230VAC
ADC-SC	440-900	Reusable padded demo case shipping container included with above. Listed here for spare or retrofit

All demo cases come standard with a reusable padded shipping container to protect the unit from damage during shipment.

## PC HARDWARE

### PC Hardware

Model #	Part #	Description
APH-10	490-000	Pentium II class machine, 350 MHZ or better, 6 GB hard drive, CD ROM drive, Windows 98, 1.44 floppy, 64 MB RAM, SVGA with 1 MB, 15" color monitor, keyboard, mouse, etc
APH-11	490-010	Printer, 400 CPS parallel interface, stand and cable, 115VAC only
APH-12	490-011	Printer, 400 CPS serial interface, stand and cable, 115VAC only

### Color Monitors & Touch Screens

Model #	Part #	Description
AVD-14	440-114	14" Color monitor
AVD-17	440-117	17" Color monitor
AVD-21	440-121	21" Color monitor
ATK-14	440-214	14" Touch screen kit consisting of PC module, touch screen, manuals, software diskette
ATK-17	440-217	17" Touch screen kit consisting of PC module, touch screen, manuals, software diskette
ATK-21	440-221	21" Touch screen kit consisting of PC module, touch screen, manuals, software diskette

### PC Serial I/O Modules

Model #	Part #	Description
AP-485-2	490-020	Dual port communications interface RS-485 module
AP-232-2	490-021	Dual port communications interface RS-232 module
AIO-232-08	490-022	Intelligent 8 port serial module RS-232
AIO-422-08	490-023	Intelligent 8 port serial module RS-422

**IMPORTANT NOTICE:** Apollo will not support PC based systems that use non-Apollo supplied serial interface modules.

### Serial I/O Modules Required for Multiple Terminal Applications Using the ASW-80 Program.

Model #	Part #	Description
AIO-232-08	490-022	Intelligent 8 port serial module RS-232 (DOS/CDOS)
AIO-422-08	490-023	Intelligent 8 port serial module RS-422 (DOS/CDOS)
AIO-232-16	490-024	Intelligent 16 port serial module RS-232
AIO-422-16	490-025	Intelligent 16 port serial module RS-422

### Serial I/O Modules Required for Multiple Terminal Applications Using Windows 95/98/NT Programs.

Model #	Part #	Description
AWN-232-08	490-028	Intelligent 8 port RS-232 serial module (Windows 95/98/NT compatible)
AWN-422-08	490-029	Intelligent 8 port RS-422 serial module (Windows 95/98/NT compatible)

### Modems

Model #	Part #	Description
AMO-11	490-031	Line driver (up to 10 km), 115VAC
AMO-12	490-032	Standard modem (auto dial/auto answer)
AMO-13	490-033	AAM-80 or AAM-20 modem (auto dial/auto answer). Includes cable and brackets
AMO-11I	490-035	Line driver (up to 10 km), 230VAC
AMO-14	490-038	56 KB modem for AAN-100 controller, standard desk unit
AMO-15	490-039	56 KB modem for AAN-100 controller, standard desk unit includes brackets and cables for mounting in AAN enclosures

## INTERFACES

### Interface Modules

Model #	Part #	Description
API-10	480-000	Required for Prox, IR readers. +12 or +24Vdc input with +12 or +24Vdc output
API-11	480-001	Same as API-10, except +5Vdc output with both +12 or +24Vdc input
API-12	480-002	API for magnetic insert readers. +5Vdc output
API-13	480-003	API for magnetic swipe, Bar code and Cotag readers
API-14	480-010	API with separate keypad interface
API-15	480-011	API for HID keypad reader
API-16	480-012	API for Motorola keypad reader
API-17	480-020	API for elevator control applications
API-18	480-021	API for elevator control with keypad interface and connectors
API-20	480-023	API for elevator control using AP-501/502 card readers
API-21	480-024	API for HID keypad elevator
API-23	480-035	API for AP-400/410/501/502
API-24	480-036	API for M/S
API-CAB	480-030	6 foot cable for API-14 with connectors
API-KPD	480-040	Keypad, 3x4 matrix on 1-gang stainless steel wall plate. Use with API-14 or API-18, can also be Used with APN-20 standalone prox controller

### Interface Modules for Retrofit

Model #	Part #	Description
API-CW	480-013	Wiegand out
API-CM	480-014	Mag swipe
API-CI	480-015	Mag insert
API-CWE	480-016	Wiegand, elevator
API-CWK	480-017	Wiegand with keypad
API-CMK	480-018	Mag swipe with keypad
API-CIK	480-019	Mag insert with keypad

## MISCELLANEOUS PRODUCTS

### Installation Tools

Model #	Part #	Description
ATL-10	490-040	Connector tool (for AP-400/410 installation)
ATL-11	490-041	Microprocessor extractor tool
ATL-12	490-042	Security screw tool - bit plus handle (required for small metal readers)
ATL-12N	490-044	Security screw tool - bit only
ATL-13	490-043	Installation master tool (recommended for all field wiring applications)

### 5mm Connectors for API, AIM-4, APA, APD, AAM-16/20/80, APM, ALP, AEL, ARM

Model #	Part #	Description
ACR-52	490-062	Plug-in, screw type connector 2 position
ACR-53	490-063	Plug-in, screw type connector 3 position
ACR-54	490-064	Plug-in, screw type connector 4 position
ACR-55	490-065	Plug-in, screw type connector 5 position
ACR-56	490-066	Plug-in, screw type connector 6 position
ACR-58	490-068	Plug-in, screw type connector 8 position

### 3.5mm Connectors for AP-5xx readers, AAN-100 and ASI-1

Model #	Part #	Description
ACR-32	490-072	Plug-in, screw type connector 2 position

ACR-33	490-073	Plug-in, screw type connector 3 position
ACR-34	490-074	Plug-in, screw type connector 4 position
ACR-35	490-075	Plug-in, screw type connector 5 position
ACR-36	490-076	Plug-in, screw type connector 6 position
ACR-38	490-078	Plug-in, screw type connector 8 position

#### Miscellaneous Products

Model #	Part #	Description
APX-10	470-000	Modem Controller/Port Expander, 115VAC input
APX-10I	470-001	Modem Controller/Port Expander, 230VAC input
APX-10B	470-002	Modem Controller/Port Expander, no enclosure, no power supply
APX-20	470-010	Dual path redundant comm link for readers or alarm panels, 115VAC input
APX-20I	470-011	Dual path redundant comm link for readers or alarm panels, 230VAC input
APX-20T	470-012	APX-20 plus Coax Transceiver (APX-30)
APX-30	470-020	Coax Transceiver
ATM-48	470-030	Terminator for RS-485 (2 per line required)
ATM-87	470-034	Terminator for RS-485 (Belden™ 8723 cable)
APM-10	470-040	Port expander. Multiplexes 1 RS-485 or RS-232 port to 8 RS-485 ports, in a 'star' configuration. Uses Belden™ 9842 cable (or equivalent)
APM-11	470-041	Same function as APM-10, but uses Belden™ 8723 cable (or equivalent)
APM-20	470-042	Line splitter RS-232, 8 port. 115VAC, Black Box
APM-21	470-043	Line splitter RS-232, 8 port. 230VAC, Black Box
AHI-10	470-050	Hand Geometry Interface
ACN-08	490-045	Connector used with AP-400/410 and ADA-10
ASC-10	490-048	Security screw, 10-pack
ASC-20	490-049	Security screw, 20-pack
APC-10	490-050	External 232/485 converter, requires +12 Vdc
APC-10P	490-051	APC-10 with power supply, 115 VAC input
APC-10PI	490-052	APC-10P, 230 VAC input
AMK-10	490-055	Module mounting kit with hinged standoffs
ABT-03	490-060	Lithium battery for AAM-16
ADL-10	490-070	Data line communication analyzer and monitor with buffer
AAS-10	490-080	Anti-static workstation, bench type
AAK-10	490-090	Anti-static portable technician kit
ALP-22	470-044	Line expander, 2-wire, Master
ALP-23	470-045	Line expander, 2-wire, Slave
ACL-48*	490-100	RS-485 communications cable. Minimum order 1000ft
	450-650	Product Brochures (package of 10)
	490-300	Apollo Manual Set

\* RS-485 Cable is ordered in multiples of 1000 ft only (1000, 2000, 3000, etc.).

#### Card Encoder

Model #	Part #	Description
ACH-20	490-126	Dual Track High Coercivity Read/Writer with software

#### Magnetic Access Cards

Model #	Part #	Description
	400-800	Apollo Mag Stripe Card
	400-801	Plain White Mag Stripe Card
	400-810	Butterfly Pouch with HI-C Mag Stripe Credit Card Size
	400-830	High coercivity mag strip laminate 0.007 in thick. Adheres to existing cards. Minimum Order - Q100

High quality Polyester cards. All cards are supplied encoded. Apollo logo or plain white with embossed number.

## APOLLO Software

#### APACS Programs

Model #	Part #	Description
APACS LITE SU	450-550	Single-User with SQL Interbase (Borland). Works with AAN-32, AAM-20, AAM-80, AAN-100
APACS LITE MU	450-555	Multi-User with SQL Interbase (Borland). Works with AAN-32, AAM-20, AAM-80, AAN-100
APACS STD SU	450-560	Single-User with SQL Interbase (Borland). Works with AAN-32, AAM-20, AAM-80, AAN-100
APACS STD MU	450-565	Multi-User with SQL Interbase (Borland). Works with AAN-32, AAM-20, AAM-80, AAN-100
APACS PRO SU	450-570	Single-User with SQL Interbase (Borland). Works with AAN-32, AAM-20, AAM-80, AAN-100
APACS PRO MU	450-575	Multi-User with SQL Interbase (Borland). Works with AAN-32, AAM-20, AAM-80, AAN-100

#### Photo Badging Programs

Model #	Part#	Description
ASW-PB-LITE	450-506	Photo Badging Lite, Single-user only
ASW-PB-PRO	450-401	Photo Badging Pro, Multi-user with networks
ASW-BS2	450-402	Badging Stations for 2 more Clients
ASW-VR2	450-403	Video Recall Stations for 2 more Clients

#### Windows 3.11/DOS/CDOS Access/Alarm Software

Model #	Part #	Description
ASW-16	450-000	Software for Alarm/Access/Attendance Register, single copy. Operates with AAM-16
ASW-11	450-020	Converts ASW-16 files to DBase format
ASW-12	450-021	Converts DBase to ASW-16 files format
ASW-40	450-040	Alarm/Access software for single user. Operates with AAM-20/80
ASW-40K	450-041	Software key, ASW-40

ASW-41	450-042	Converts ASW-40 to DBase
ASW-42	450-043	Converts DBase to ASW-40 format
ASW-80	450-080	Alarm/Access software for multi-user. Operates with AAM-20/80
ASW-80GT	450-075	ASW-80 Guard Tour
ASW-81	450-081	Converts ASW-80 files to DBase format
ASW-82	450-082	Converts DBase to ASW-80 files format
ASW-80K	450-083	Software key, ASW-80. (Replacement key only/original key must be returned).
ASW-84	450-084	Language translation tools from English to other languages
ASW-90	450-090	Graphics software for ASW-80 system (Windows 3.11)
ASW-91	450-091	Live video for ASW-80 system. Operates with ASW-90
ASW-90K	450-092	Software key, colorgraphics.

## OEM Products

### MOTOROLA

#### ASP Advantage Series Proximity, 26Bit, Apollo and Edicon formats supported

Model #	Part #	Description
ASR-500*	480-100	Wiegand replacement reader
ASR-503*	480-101	Door frame/Mullion
ASR-505*	480-102	Wall switch
ASR-110*	480-103	Standard indoor/outdoor
ARK-501**	480-109	Reader with integral keypad
ASR-603*	480-111	SecureProx I indoor/outdoor
ASR-605*	480-112	SecureProx II indoor/outdoor
ASR-610*	480-113	MasterProx indoor/outdoor
ASR-620*	480-114	Power Prox

\*Requires API-10 proximity interface module. \*\*Requires API-16 proximity interface module.

Operating Frequency: 125 KHz.

LED Color: Multi-color

Audio Tone: Standard

#### Spare Cover for ASR-603/605

Model #	Part #	Description
ASR-1BG	480-150	Beige cover for ASR-603
ASR-1BK	480-151	Black cover for ASR-603
ASR-1WH	480-152	White cover for ASR-603
ASR-2BG	480-153	Beige cover for ASR-605
ASR-2BK	480-154	Black cover for ASR-605
ASR-2WH	480-155	White cover for ASR-605

#### Cards/Tags, 26 Bit, Apollo and Edicon formats supported

Model #	Part #	Description
IR-60E	480-300	Vehicle ID Reader
AVT-159	480-303	Active Vehicle Tag
ASC - 121T	480-200	Proximity card
ASK - 116T	480-203	Key tag
IMAGE-30	480-205	30 mil IsoProx card, for video image

Minimum order 100 tags/cards.

IMAGE-30 Custom Configuration: minimum order is 500 pieces, cards available only in even increments of 500.

#### Specifications

**ASR-110® Standard Reader** The ASR-110 is a unitized indoor/outdoor proximity reader. It can be mounted to any surface, including solid metal, or concealed behind most non-metallic building materials. It can also be mounted against a metal door/window frame. Read range is up to 7"(17.8cm) with ASC-121 card. Operating temperature is -35°C to +65°C. Available colors in beige or black. Dimensions are 4.6"H x 5.5"W x 1.4"T (117mm x 142mm x 35mm). Operates from 4 to 16Vdc @ 180mA.

#### ASR-500® ValueProx Proximity Reader

The ASR-500 offers basic features in a single-piece, low-cost reader. The reader is the same size and shape as a U.S. Wiegand reader (with the same mounting holes) which allows for easy system upgrade from Wiegand to proximity. The reader electronics are sealed, enabling use indoors or outdoors. Reader range is up to 4" (10cm). Operating temperature range is -35°C to +65°C. Color is black with multi-color LED and audio tone, with 2-Wire Wiegand output. Dimensions are 5.30"H x 2.30"W x 0.75"T (140mm x 42mm x 19mm). Operates from 4 to 16Vdc @ 45 mA.

#### ASR-503® Door Frame Reader

The ASR-503 is one of the world's smallest single piece indoor/outdoor proximity readers and will mount directly on a standard 1.75" (4.5cm) wide metal door/window frame (mullion). It is designed to be mounted on any surface, including solid metal. Read range is up to 4"(10.2cm) with ASC-121T card. Operating temperature range is -35°C to +65°C Color is black with multi-color LED and audio tone. Dimensions are 5.5"H x 1.65"W x 0.75"T (140mm x 42mm x 19mm). Operates from 4 to 16Vdc @ 45mA.

#### ASR-505® Wall Switch Reader

The ASR-505 is an architectural single piece unit designed to blend into executive office decor. It is made to mount indoors on any standard USA metal or plastic single-gang electric box or on a flat wall. It can be mounted on a metal surface with a slight loss of read range. Read range is up to 4" (10.2cm) with ASC-121T card. Available colors in beige (standard) or black (optional) with multi-color LED and audio tone. Dimensions are 4.6"H x 3.0"W x 0.65"T (118mm x 76mm x 17mm). Operates from 4 to 16Vdc @ 45mA.

#### ASR-603® SecureProx I Reader

This reader is designed to mount on metal door frames (mullions). It is smaller than the ASR-503. Its dimensions are 4.5"H x 1.7"W x 0.85"T, (114mm x 43mm x 21.5mm). Read range up to 5" (12.7cm) using ASC-121T card. Input voltage is 4-16Vdc regulated. Maximum current 100 max @ 5Vdc. Temperature range -35°C to +65°C. Tri-color LED and independent controlled audio tone. Available colors in beige or black. Weather proof with Wiegand output.

#### ASR-605® SecureProx II Reader

This reader is designed to mount on a metal single gang box (wall switch size). Has watchdog output for applications requiring a supervised reader. Dimensions are 4.5"H x 3"W x 0.85"T, (114mm x 76mm x 21.5mm). Read range up to 5" (12.7cm) using ASC-121T card. Input voltage is 4-16Vdc regulated. Maximum current 100ma @ 5Vdc. Operating temperature -35°C to +65°C. Tri-color LED and independent controlled audio tone. Available colors in beige or black. Weather proof with Wiegand output.

#### ASR-610® MasterProx Reader

This MasterProx is an indoor/outdoor proximity reader with a read range of up to 12.0" (30cm) with an ASC-121T proximity card. The ASR-610 is designed for mounting on a single or dual metal gang box. Its dimensions are 5.10"H x 6.10"W x 1.00"T (129.5mm x 154.9mm x .25.4mm). Read range up to 12" (30cm) using ASC-121T card. Operates from 4-14 Vdc and a regulated linear power supply is recommended. Operating temperature -35°C to +65°C. Tri-color LED and independent controlled audio tone. Available colors in beige or black.

#### ASR-620® PowerProx Reader

This PowerProx is an indoor/outdoor proximity reader with a read range of up to 28" (71cm) with an ASC-121T proximity card. The PowerProx is bi-directional and comes in black color. Dimensions are 11.2" x 11.2" x 1.8" (28.4 cm x 28.4cm x 4.6cm). Operates on 12-24Vdc. Weight is 3.2 lbs (1.45kg). Power required is 1.2A @ 12Vdc or 900mA at 24Vdc maximum. Operating temperature is -31°F to +149°F (-35C to +65°C). Large tri-color LED, audio tone and Wiegand output.

#### ARK-501® PinProx Proximity Reader and Keypad

The ARK-501 is a proximity reader and keypad combined in a small, attractive package designed for high-security applications where both a personal identification number (PIN) and an access card are required. The reader mounts on a standard U.S. electrical junction box or any flat surface. The keypad is transmitted over Wiegand-compatible data lines as Wiegand data, providing easy integration. The keypad data is transmitted over the same wires as the card data requiring less cable and both functions use only one port on the door controller. Read range is up to 4"(10cm) with ASC-121T card. Available colors in beige (standard) or black (track). Dimensions are 4.6"H x 3.0"W x 0.65"T (116mm x 76mm x 17mm). Operates from 4 to 16Vdc @ 50mA.

#### ASC-121T® Card

The ASC-121 cards are made of tough plastic. Cards come in familiar credit card size: 3.4" x 2.2" x 0.11" (8.6 x 5.6 x 0.28cm). The cards come standard with a punched slot for straps or clips and weigh less than 1/2 oz. (14g). Color is gray. Cards can be ordered printed with custom graphics and permanent number marking.

#### ASK-116T® Key Tag

ASK-116 key tags are compact, convenient and easy to carry and use. They also work with all ASP readers. Size is mere 2.2" x 1.2" x 0.26" (56 x 32 x 7mm). Each has a brass eyelet for attaching to a key ring. Read range is approximately 50% that of the ASC-121T card. ASP key tags are made of a tough plastic. Color is black.

#### IMAGE-30® Image 30 ASP Proximity Card

The Image 30 in standard configuration includes a white front glossy finish suitable for video imaging. Back is a matte finish with vertical or horizontal slot punch indicators. Graphics include black & white Motorola & ASP logos. Price includes number matching internal ID. Hot stamp number is across bottom of card. Options include gloss finish on back side, white back side (no logos), mag stripe on back side (3 tracks), slot punches and full custom color graphics pre-printed on front or back. All card orders are final.

#### IR-60E® Vehicle Identification Reader

The IR-60E is an in-road mounted reader. Read range of up to 32" (81 CM) and speeds up to 25mph (40kph). Dimensions 12" x 10" x 6" (30.5 cm x 25.5 cm x 15.3 cm). Input voltage of 24Vdc. Operating temperature 0°C to 65°C.

#### AVT-159® Active Vehicle Identification Tag

The AVT-159 is a long range rugged active tag. It is an essential component in vehicle identification and tracking systems. It can be attached to vehicles or other objects and read by in-road mounted reader. Dimensions 2.5" x 7.9" x 0.9" (6.2 cm x 20 cm x 2.3 cm). Operating temperature -30°C to 65°C.

## BIOMETRIC IDENTIFICATION, HAND GEOMETRY & FINGER SCAN

### Hand Geometry & Finger Scan

Model #	Part #	Description
ID3DR	480-600	Hand geometry indoor unit (256 users)
ID3DRW	480-610	Hand geometry outdoor unit (256 users)
EM-600	480-620	Memory expansion for up to 3,328 users
EM-602	480-621	Memory expansion for up to 9,728 users
WM-200	480-630	Recessed wall mount kit
WM-201	480-631	Surface wall mount kit
IS-400	480-640	Power supply, 115VAC input
BB-100	480-651	Power supply with battery back-up. Works with WM-200 and WM-201. Includes IS-400
VPR-2100	480-660	Finger scan unit
TL-625	480-700	Touch Lock II, finger scan unit with Wiegand output, Quantity 10-50
TL-660	480-702	RS-232 to RS-485 converter for SW-710
SW-710	480-703	Touch Lan software for networking of TL-625 for centralized enrollment/storage of templates

## BAR CODE READERS

### Bar Code Readers

Part #	Description
480-400	Bar code swipe reader. 26 bit Wiegand, with face plate kit and back box
480-410	Bar code insert reader. 26 bit Wiegand, with face plate kit and back box
480-430	Laser Labels
480-431	Laminating Pouch
480-432	Bar key Badge

Note : All readers listed here require API-13 interface.

## HID

### Proximity Readers

Part #	Description
480-310	ProxPro PR5355
480-311	ProxPro PK5355 with keypad
480-312	MiniProx MP5365
480-313	ThinLine II Switch Plate TL5395
480-314	NT MaxiProx MX5375 (24Vdc)
480-315	ProxPro Plus (12V) 6030
480-316	MiniProx Hazardous Location Reader 5365-1
480-317	ProxPoint Prox Reader
480-318	MiniProx MP5368 (Clock/Data Output)
480-319	ProxPro MP5352 (RS-232)

### Cards/Keys/Labels, 26 Bit, Apollo and Edicon formats supported

Part #	Description
480-337	ProxCARD II RF Programmable Proximity Card 1326
480-338	ProxCARD II RF Programmable Proximity Card 1326XAXXXV with peel-off self-adhesive front for use with non-adhesive direct image label
480-323	PhotoProx Laminated Card 1365
480-339	PhotoProx User Laminated Photo ID Proximity Card 1366
480-324	ISOProx II Card 1386-LGSMN, graphics quality, vinyl Proximity Card (front: blank/white gloss; back: matte/HID logo/ID number)
480-325	ISOProx II Card 1386-LGGMN, (front: blank/white gloss; back: gloss/punch mark/ID number)
480-326	ProxKey II Proximity Access Keyfob 1346
480-334	Passive Vehicle ID Tag 1356 Series (used with NT MaxiProx)
480-327	Direct image PVC label-1324A with adhesive back for Prox Card II
480-340	Direct image, non-adhesive PVC label-1324N for use with ProxCARD II card with the peel-off self-adhesive front
480-341	Clear guard protection label for use with all direct image cards 1324C
480-322	DuoProx II Dual Technology 1336 Vinyl Proximity Card
480-328	ProxCARD Plus (Proximity and Wiegand) 1376
480-336	SmartProx Proximity Card without Smart Chip 1396
480-335	SmartProx RF Programmable Proximity Card with Smart Chip

The minimum card order quantity is 100 for all standard cards and transponders, 500 for cards with custom artwork and 500 for cards that differ in size from a standard credit card (2-1/8" X 3-3/8").

### Multi-Technology Prox Reader Controller

Part #	Description
480-330	MultiProx Controller 6000, 24 Volt, Coaxial to Wiegand interface
480-331	MultiProx Reader 5385 (Side Mount) powered by the controller
480-332	MultiProx Reader 5385 (Back Mount) powered by the controller
480-333	MultiProx HSM Interface 6020

### Wiegand Readers

Part #	Description
400-210	Classic Swipe Reader 310 (Beige)
400-211	Classic Swipe Reader 310 (Black)
400-220	Epic Swipe Reader 315 (Beige)
400-221	Epic Swipe Reader 315 (Black)
400-230	Turnstile Reader 314 (Black)
400-231	Turnstile Reader 314 (Chrome)
400-240	Insertion Reader 312
400-241	Insertion Reader with Escutcheon 312
400-250	Sensorkey Reader 313
400-260	PINpad Wiegand Reader 310

### Wiegand Cards

Part #	Description
400-850	Sensorcard Vinyl Card (0.0367" (0.94 mm) thickness) Style # 11
400-851	Sensorcard Vinyl Card (0.037" (0.76mm) thick) Style # 10
400-860	PhotoID Wiegand Badge (Polyester/Vinyl or Vinyl Laminate) Style # 12, 17,19
400-852	Sensorcard Extra Duty Wiegand Card (0.047" (1.2mm) thick) Style # 14
400-840	Sensorkey Wiegand Key Style #25
400-870	ProxCARD Plus Prox/Wiegand Card (Graphics Quality Surface) Style # 169
400-871	Sensorcard II Dual Technology Card (Wiegand and Magnetic Stripe) Style #10
400-872	Clear guard protection label for use with all direct image cards Style #1324000
400-873	Code Strips Style #21

### Specifications

ProxPro® Proximity Card Reader Combines all of the electronics into a single enclosure that mounts to a standard single-gang box. With its weatherproof design, it is easily mounted either indoors or out. The ProxPro offers Wiegand protocol interface compatibility. Typical read range is 5-9" (14-23 cm). Operating temperature range is -30° to +65°C. Color is charcoal gray (or beige) with tri-state LED and internal beeper. Options are keypad & custom label. Dimensions are 5"H x 5"W x 1"T (12.7cm x 12.7cm x 2.54cm). Operates on 10-28.5Vdc @ 100-160mA.

MiniProx® Proximity Card Reader

Offers high reliability, consistent read-range characteristics, and low power consumption in a single package. The slim design allows the MiniProx to be mounted indoors and out, and to match any decor. Typical read range is 4-5.5" (10-14 cm). Operating temperature range is -30<sup>0</sup> to +65<sup>0</sup>C. Color is charcoal gray (or beige) with tri-state LED, Wiegand interface and internal beeper. Dimensions are 6"H x 1.7"W x 0.75"T (15.2 cm x 4.3cm x 1.91 cm). Operates on 5V @ 50-80mA.

#### ThinLine II<sup>®</sup> Switch Plate Reader

Provides the same performance and reliability as the MiniProx<sup>®</sup> proximity reader, but with a low-profile appearance. Housed in an industry-standard switch plate. This reader is now available with Wiegand interface. Typical read range is 4-5.5" (10-14 cm). Operating temperature range is -30<sup>0</sup> to +65<sup>0</sup>C. Color is white, beige or black with tri-state LED, internal beeper on. Dimensions are 4.65"H x 2.95"W x 0.50"T (11.8cm x 7.5cm x 1.2cm). Operates on +5 to +16Vdc @ 140mA max.

#### MaxiProx<sup>®</sup> Extended Range Proximity Card

This reader packages all of the electronics in one housing. Typical read range is 18-24" (46-61 cm). Operating temperature range is -30<sup>0</sup> to +65<sup>0</sup>C. Color is charcoal gray with tri-state LED and internal beeper on. Options are LED and beeper operation, external beeper and custom label. Dimensions are 12"H x 12"W x 1"T (30.5cm x 30.5cm x 2.54cm). Operates on 14-28.5Vdc @ 200mA-1.5A.

#### ProxCARD II<sup>®</sup> Access Control Card

ProxCARD II proximity card are slot punched, offer custom graphics and are compatible with most adhesive photo pouches. Size is 3.375" x 2.125" x 0.070" max. (8.57cm x 5.40cm x 0.18cm). Option is external card numbering.

#### DuoProx<sup>®</sup> Multiple Technology Proximity Card

DuoProx cards are a thin, flexible laminate with a standard three-track magnetic stripe. Size is 2.125" x 3.375" x 0.035" nom. (5.40cm x 8.57cm x 0.09cm). Options are card finish for direct printing, external card numbering, slot punch and custom graphics.

#### PhotoProx<sup>®</sup> Photo ID Proximity Card

PhotoProx cards are thin and flexible with an integral photo flap bonded on one edge of the card. Size is 3.375" x 2.125" x 0.050" max. (8.57cm x 5.40cm x 0.13cm). Can be laminated with a photo ID in a standard photo laminator.

#### ISOProx<sup>®</sup> Access Control Card

The ultra-thin ISOProx card offers proximity technology and photo identification on a single access control card. Made of PVC, it is thin, durable, and flexible. Size is 2.125" x 3.375" x 0.035" nom. (5.40cm x 8.57cm x 0.09cm). Options are external card numbering, slot punch and custom graphics.

#### ProxKey II<sup>®</sup> Proximity Keyfob

The ProxKey II proximity keyfob incorporates proximity technology into a device about the size of an automotive key. Can be programmed with up to 37 bits of Wiegand formatted information for universal compatibility with all Wiegand reader applications. Size is 1.9" x 0.9" x 0.345" (4.83cm x 2.29cm x 0.88cm). Weighs 0.26 oz. (7.3gm).

#### Vehicle ID Tag<sup>®</sup>

The RF programmable vehicle tag offers passive proximity technology with up to 39" (1 meter) read range when used with the NT MaxiProx reader. It mounts on the inside of a curved windshield, with its adhesive backing, and conforms to the shape of the glass. It can be read from the side of the vehicle by the new NT MaxiProx reader. The Tag does not require a battery and is provided with a lifetime warranty. Operating temperature -50<sup>0</sup> to 160<sup>0</sup>F (-45<sup>0</sup> to 70<sup>0</sup>C). Weight 3.35oz (94.97gm). Tag dimensions 3.92", diameter by .90" thick (9.95cm x .23cm).

#### ProxLite Proximity Reader<sup>®</sup>

This micro reader combines all the electronics in a very small package. The ProxLite is completely potted with a clip over cover. A single internally controlled LED provides status indication. No internal beeper is offered with this model, read range is 3"-4" inches (7.5-10 cm). Indoor/outdoor use. Colors are: gray or beige. Size is 3.135' x 1.7" x 0.5" (7.5 x 3.7 x 1.25 cm).

## VIDEO BADGING PRODUCTS & SUPPLIES

### Badge Printers

Part #	Description
450-720	Pro color dual-side ID printer (110-250VAC)
450-721	ProL color dual-side ID printer (110-250VAC) with lamination

\*4250, Pro and ProL printers include dual high/low coercivity mag stripe encoders and networking capability

### Ultra Card

Model	Part #	Description
ACD-2	450-450	Ultra Card II, 30 mil, 500 count, high-durability polyester card with PVC laminate on top and bottom.
ACD-M	450-451	Ultra Card II with high coercivity mag stripe, 500 count
ACK-1	450-460	Cleaning kit, includes 4 printhead cleaning cards and , 50 pads

### Badging Products & Supplies

Part #	Description
450-447	PolyGuard clear 1.0 mil overlamine, 125 count (Use with ProL only)
450-446	PolyGuard secure holographic design 0.6 mil overlamine, 250 count (use with ProL only)
450-730	Full-color ribbon with dye-sublimation black panel and clear overlay panel, 250 prints (for use with Quatro, 4250, Pro and ProL)
450-731	Full-color ribbon with 2 resin black panels, 250 prints. Prints full-color and resin black on front side of card and resin black on back side of card. (Use with ProL only. Must use PolyGuard overlamine to protect printed card from fading or dye migration.)
450-732	Full-color ribbon with 2 resin black panels and a clear overlay panel, 250 prints. Designed for dual-sided printing. Prints full-color and resin black on front side of card and resin black on back side of card. No separate overlamine required with use of overlay (use with ProL only)
450-740	DC210 Plus Zoom digital camera (1174 x 884 pixels) [includes AC Adapter and built-in flash]
450-741	Digital Camera Badging Kit [includes camera and Quatro printer, video cable, 4' x 7' sky-blue background and background stand]
450-750	Video Camera
450-751	Video Capture Board for camera above
450-752	Video Camera Badging Kit [includes camera, Quatro printer, capture board, video cable, 4' x 7' sky-blue background and background stand]
450-760	Auxiliary Lighting Kit
450-761	Camera tripod
450-762	Video camera cable
450-763	4' x 7' sky-blue background

450-764 Background stand

## ULTRAPROX LONG RANGE ID SYSTEM

### Interrogators (Readers)

Part #	Description
450-601	U-RFID-IX-001 Interior/Exterior Interrogator, suitable for indoor and outdoor use. Waterproof housing and comes without accessories. Dimensions 11" x 22" x 2.5"
450-602	U-RFID-IXP-001 Wiegand Pre-Pack Reader. Includes: a) Interrogator - U-RFID-IX-001 with Wiegand output; b) 12 Vdc Power Supply 115-220 VAC input; c) Universal Interrogator bracket: swivel head bracket mounts to interrogator to facilitate the adjustment of the interrogator's reading angle.

### Cards & Tags

Part #	Description
450-609	U-RFID-C-002 Cards (5 feet read range)
450-610	U-RFID-C-001 Cards (10 feet read range)
450-611	U-RFID-T-001 Tags (20 feet read range)
450-612	U-RFID-T-002 Tags (10 feet read range)

### Options & Accessories

Part #	Description
450-631	Universal Interrogator Bracket
450-633	12 VDC Power Supply
450-634	Hook & Loop Tag Mounting (per tag, unattached)
450-635	Rearview Mirror Tag Hanger (clear)

### Description

The ULTRAProx interrogator make vehicle access control fast and convenient. The interrogator has a read range of up to 20 feet.

Vehicle tags may be attached to the car windshield or hung from the rear view mirror. The extended read range facilitates total hands free operation of the car park barrier system. The pre-pack reader combination is delivered c/w power supply and mounting brackets with a swivel head for proper and ease of alignment.

The Ultraprox can also be used for company asset tagging by securing the tags to e.g.: computers etc. to prevent unauthorized removal of such equipment from the company's premises.

The ULTRAProx is smaller than most long range reader and is completely suitable for outdoor use. The C-001 tag is designed for use as a personnel ID card while the T-002 is well suited for mounting in vehicles or other assets.

C-001 is 3.3" x 2.1" x .07" while the T-002 is 3.3" x 2.1" x 0.2" (inches).

## KERI SYSTEMS

### Proximity Readers

Part #	Description
480-800	P-300 Cascade Reader - Black Bezel
480-801	P-300 Cascade Reader - Off-White Bezel
480-810	P-500 Alps Proximity Reader - Black Bezel
480-811	P-500 Alps Proximity Reader - Off-White Bezel

### Description

The P-300 is a small proximity reader designed to be mounted on a standard metal doorframe or mullion without loss of read range. The read range is up to 4 inches. P-300 capabilities include standard Wiegand output and configurable tricolor LED and audio options. Readers are available in off-white and black. Removable plastic bezels offer easy change of color. Dimension are 3" x 1.5" x 0.5" (76 x 38 x 12 mm). Power requirements are 5-14 Vdc.

The P-500 is an ultra thin profile proximity reader designed to be mounted on flat surfaces or on a single-gang electrical box. The read range is up to 5 inches. P-500 capabilities include standard Wiegand output and configurable tricolor LED and audio options. Readers are available in off-white and black. Dimensions are 4.5" x 3" x 0.4" (114 x 76 x 10 mm). Power requirements are 5-14 Vdc.

### Proximity Cards

Part #	Description
480-820	PSC-1 Standard Light Proximity Card
480-821	PSM-2P Multi Technology Card - ISO thin, dye sublimation printable
480-822	PSM-2S Multi Technology Card with Magnetic Stripe - ISO thin, dye sublimation printable. Includes 3-Track Magnetic Stripe
480-830	PVC-9 PVC Adhesive Overlay - adheres to PSC-1 for Dye Sublimation Photos & Graphics

### Description

The PSC-1 proximity card used with the P-300 and P-500 readers is considerably thinner than other "clamshell" proximity cards, yet comes with a lifetime warranty.

The card is made from tough ABS and offers a read range of up to 4" with the P-300 and P-500. The PSC-1 is available in off-white and is provided with a vertical hanging slot punch and the card ID number permanently marked on the cards. The PSC-1 is the familiar 3.4" x 2.2" x 0.6" (86 x 54 x 0.8 mm).

PSM-2 ISO thin card is suitable for use with video badging systems and can be ordered with or without a high coercivity magnetic stripe. The PSM-2 is made from PVC with a printable matte finish. The PSM-2 achieves a read range of up to 3 inches when used with the P-300 and up to 4 inches when used with the P-500. Size is the same as a regular credit card: 3.375" x 2.215" x 0.031" (86 x 54 x 0.8 mm).