

**PCCO #060**

Hueber-Breuer Construction Co, Inc.
 148 Berwyn Ave.
 Syracuse, New York 13210
 Phone: (315) 476-7917
 Fax: (315) 476-7990

Project: 16-474 USL - 505 Walnut Ave Apartments (USL)
 505 Walnut Avenue
 Syracuse, New York 13210

Prime Contract Change Order #060: PCO79 Access Control System

TO:	Southside Genesee Associates, LLC 3 East Stow Road, Suite 260 Marlton , New Jersey 08053	FROM:	Hueber-Breuer Construction Co., Inc. 148 Berwyn Avenue, PO Box 515 Syracuse New York 13205
DATE:	3/ 13 /2018	CREATED BY:	Lisa Weaver (Hueber-Breuer Construction Co., Inc.)
SCHEDULE IMPACT:		EXECUTED:	No
CONTRACT FOR:	1:505 Walnut Ave (USL) Prime Contract	TOTAL AMOUNT:	\$ 73,177.37

DESCRIPTION:CE #094 - Access Control System

Furnish and install access control system per attached documents.

72,095.00 Huen
 1,082.37 HB Fee
 73,897.37 Change Order Amount

ATTACHMENTS:

[16-Port Network Switch Data Sheet.pdf](#) [8-Port Network Switch Data Sheet.pdf](#) [A1001 Access Control Single Digits Integration Device.pdf](#) [Surface Mount Magnetic Lock.pdf](#) [Surface Mount Electronic Strike.pdf](#) [HID Vehicle FOB Reader.pdf](#) [HID Readers.pdf](#) [Vehicle Fobs.pdf](#) [01 Huen Quotation.pdf](#)

The original (Contract Sum)	\$ 34,846,056.00
Net change by previously authorized Change Orders	\$ 654,498.72
The contract sum prior to this Change Order was	\$ 35,500,554.72
The contract sum would be changed by this Change Order in the amount of	\$ 73,177.37
The new contract sum including this Change Order will be	\$ 35,573,732.09
The contract time will by this Change Order by	

David McHenry, Erdy McHenry
Architecture, LLC

Southside Genesee Associates, LLC
 3 East Stow Road, Suite 260
 Marlton New Jersey 08053

Hueber-Breuer Construction Co., Inc.
 148 Berwyn Avenue, PO Box 515
 Syracuse New York 13205

DocuSigned by:

 DC71C321A3E64E7

SIGNATURE**DATE**

DocuSigned by:

 4ACCC916448441

SIGNATURE**DATE**

DocuSigned by:

 1A720F55A10A4C4...

SIGNATURE**DATE**



16-Port Gigabit Web Smart PoE+ Switch

TPE-1620WS (v2.0R)

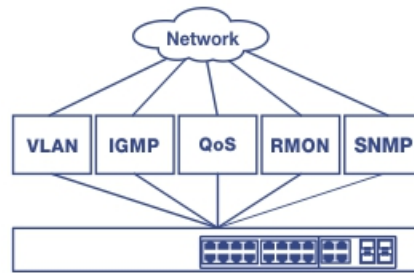
- 16 x Gigabit PoE+ ports
- 4 x Shared Gigabit ports (RJ-45 or SFP)
- 185W PoE power budget
- Easy-to-use web-based management interface
- Supports IPv6, LACP, VLAN, QoS, and IGMP Snooping
- Bandwidth control per port
- Private and Voice VLAN support
- Smart Fan
- 40Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- Limited Lifetime Warranty

TRENDnet's 20-Port Gigabit Web Smart PoE+ Switch, model TPE-1620WS, delivers advanced management features with a 40Gbps switching capacity. This rack mountable, IPv6 ready switch comes with an intuitive web-based interface. Advanced traffic management controls, troubleshooting, and SNMP monitoring make this a powerful solution for SMB networks. The TPE-1620WS provides 16 gigabit PoE+ ports with a total power budget of 185W, and four shared gigabit ports (RJ-45 or SFP). The PoE+ standard supplies up to 30W of power per port for devices such as high power wireless access points, PTZ (Pan Tilt Zoom) Internet cameras, and VoIP telephony systems.



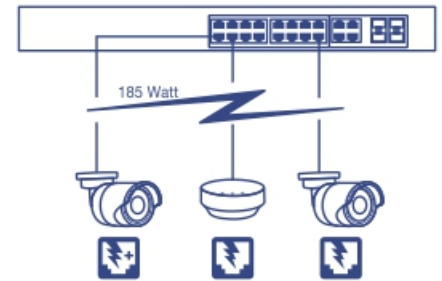
Web Smart Management

Provides an easy-to-use web-based GUI management for reduced switch configuration complexity and offers a combination of SMB management features for easy deployment.



Integration Flexibility

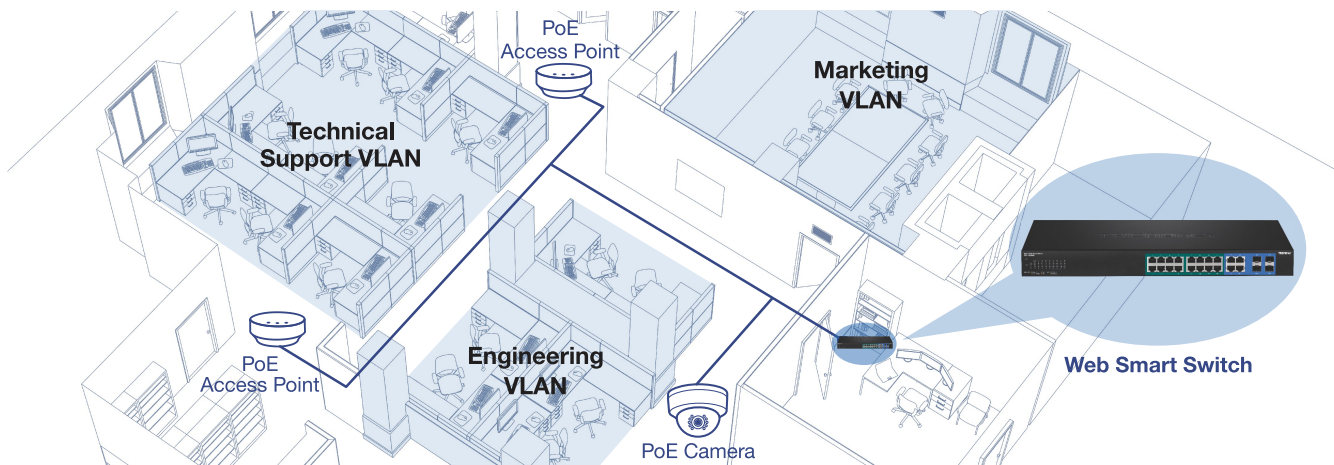
Managed features include access control lists, VLAN, IGMP snooping, QoS, RMON, SNMP trap, and syslog for monitoring and flexible network integration.



PoE Power

A 185W PoE power budget supplies power to PoE devices.

Networking Solution





Hardware Design

Features 16 gigabit PoE+ ports, 4 shared gigabit ports (RJ-45 or SFP), a 40Gbps switching capacity, a built-in power supply, and includes rackmount brackets.



PoE Power

Supplies up to 30W of PoE+ power per port with a total power budget of 185W.



IPv6 Ready

This switch supports IPv6 configuration and IPv6 neighbor discovery.



Traffic Management

A broad range of network configurations are supported by: 802.3ad link aggregation, Asymmetric VLAN, 802.1Q VLAN, Voice VLAN, RSTP, MSTP, Loopback Detection, GVRP, 802.1p Class of Service (CoS), port bandwidth management, and QoS queue scheduling.



Troubleshooting

A convenient cable diagnostic test and traffic statistics aid in network troubleshooting.



Access Control

Features such as ACL, SSL, MAC/port filtering, 802.1X, TACACS+, and RADIUS are compatible with layered access controls.



Monitoring

RMON, SNMP, SNMP Trap, and Port Mirroring support administrator monitoring solutions.

Specifications

Standards

- IEEE 802.1d
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.1s
- IEEE 802.1w
- IEEE 802.1X
- IEEE 802.1ab
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3az

Device Interface

- 16 x Gigabit PoE+ ports
- 4 x shared Gigabit ports (RJ-45/SFP)
- LED indicators

Data Transfer Rate

- Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Gigabit Ethernet: 2000Mbps (full duplex)

Performance

- Switch fabric: 40Gbps
- RAM buffer: 512KB
- MAC Address Table: 8K entries
- Jumbo Frames: 10KB
- HOL Blocking Prevention
- Forwarding rate: 29.8Mpps (64-byte packet size)

Management

- HTTP/HTTPS (SSL v2/3 TLS) Web based GUI
- SNMP v1, v2c, v3
- RMON v1
- Static Unicast MAC Address
- Enable/disable 802.3az Power Saving
- LLDP and LLDP-MED
- Virtual Cable Diagnostics Test
- IPv6: IPv6 Neighbor Discovery, IPv6 Static IP, DHCPv6, Auto configuration

MIB

- IP FORWARD TABLE MIB RFC 1354
- RMON MIB RFC 1271
- IPV4 MIB RFC 1213
- IPV6 MIB RFC 2465
- GVRP MIB IEEE 802.1Q-VLAN
- LA MIB IEEE 802.3ad
- LLDP MIB IEEE 802.1AB
- IGMP SNOOPING MIB RFC 2933
- MLD SNOOPING MIB RFC 3019
- PRIVATE VLAN MIB IEEE 802.1Q

- DHCP Snooping MIB RFC 2026
- QOS MIB RFC 4323
- SNMP MIB RFC 3415
- STP MIB RFC 4318
- PNAC MIB IEEE 802.1x
- VLAN MIB IEEE 802.1q
- DNS MIB RFC 1611
- ACL MIB
- BANDWIDTH CTRL MIB
- LBD MIB
- MIRROR MIB
- IPV6 NEIGHBOR MIB
- SNTP MIB
- STORM CTRL MIB
- STATISTICS MIB
- Tool MIB
- VOICE VLAN MIB
- DOS MIB

Spanning Tree

- IEEE 802.1D STP (Spanning Tree protocol)
- IEEE 802.1w RSTP (Rapid Spanning Tree protocol)
- IEEE 802.1s MSTP (Multiple Spanning Tree protocol)

Link Aggregation

- Static Link Aggregation
- 802.3ad Dynamic LACP

Quality of Service (QoS)

- 802.1p Class of Service (CoS)
- DSCP (Differentiated Services Code Point)
- Bandwidth Control per port
- Queue Scheduling: Strict Priority, Weighted Round Robin (WRR)

VLAN

- Multiple management VLAN assignment
- Asymmetric VLAN
- 802.1Q Tagged VLAN
- Dynamic GVRP
- Up to 256 VLAN groups, ID Range 1-4094
- Private VLAN (Protected Ports)
- Voice VLAN (10 user defined OUIs)

Multicast

- IGMP Snooping v1, v2, v3 (per VLAN)
- Static Multicast Address
- Up to 256 multicast entries

Port Mirror

- RX, TX, or Both
- One to one

Encryption

- 802.1X Port-Based Network Access Control, RADIUS, TACACS+
- Local Dial In User Authentication
- DHCP Snooping (per VLAN)
- Loopback Detection

- Duplicated Address Detection
- Trusted Host
- Denial of Service (DoS)

ACL IPv4 L2-L4 & IPv6

- MAC Address
- VLAN ID
- Ether Type (IPv4 only)
- IP Protocol 0-255
- TCP/UDP Port 1-65535
- 802.1p
- DSCP (IPv4 only)
- IPv6 Address (IPv6 only)

Compatibility

- Optional Software Utility: Windows® 10, 8.1, 8, 7, Vista, XP, Windows® 2003/2008 Server

Special Features

- PoE+
- IPv6
- 802.3az power saving
- Rack mountable

Power

- Input: 100 - 240V AC, 50/60Hz, internal power supply
- Consumption: 226 Watts (max.)
- Power Budget: 185 Watts

Fan/Acoustics

- Quantity: 2
- Noise Level: 52 dB(A) (max.)

MTBF

- 465,862 hours

Operating Temperature

- -5 – 50°C (23 - 122°F)

Operating Humidity

- Max. 95% non-condensing

Dimensions

- 440 x 250 x 44mm (17.3 x 9.8 x 1.74 in.)
- Rack mountable 1U height

Weight

- 3.66kg (8 lbs.)

Certifications

- CE
- FCC
- UL

Warranty

- Limited Lifetime Warranty*

Package Contents

- TPE-1620WS
- Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Power cord (1.8m/6 ft.)
- Rack mount kit

TRENDnet offers a limited lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.

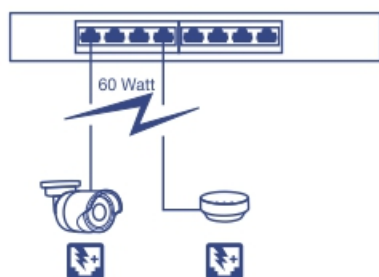


8-Port Gigabit EdgeSmart PoE+ Switch

TPE-TG44ES (v1.0R)

- 4 x Gigabit PoE+ ports
- 4 x Gigabit ports
- 60W PoE power budget
- Easy to use web-based management interface
- Supports LACP, VLAN, QoS, and IGMP Snooping
- Bandwidth control per port
- 16Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- Compact fanless design
- Wall mountable metal housing

TRENDnet's 8-Port Gigabit EdgeSmart PoE+ Switch, model TPE-TG44ES, is a cost-effective switch solution for high-speed gigabit PoE+ applications. This EdgeSmart switch features the most commonly used managed switch features, reducing unnecessary switch complexity. The web-based management interface offers features for traffic control, troubleshooting, access controls, and monitoring. TRENDnet's TPE-TG44ES provides four gigabit PoE+ and four gigabit non-PoE ports. The PoE+ standard supplies up to 30W of power per port for devices such as high power wireless access points, PTZ (Pan Tilt Zoom) Internet cameras, and VoIP telephony systems.



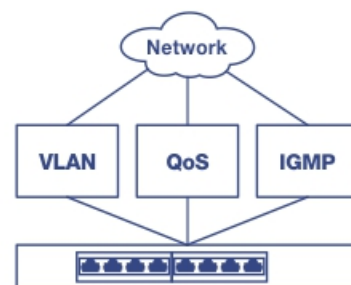
PoE Power

A 60W PoE power budget supports up to four Power over Ethernet devices.



EdgeSmart Management

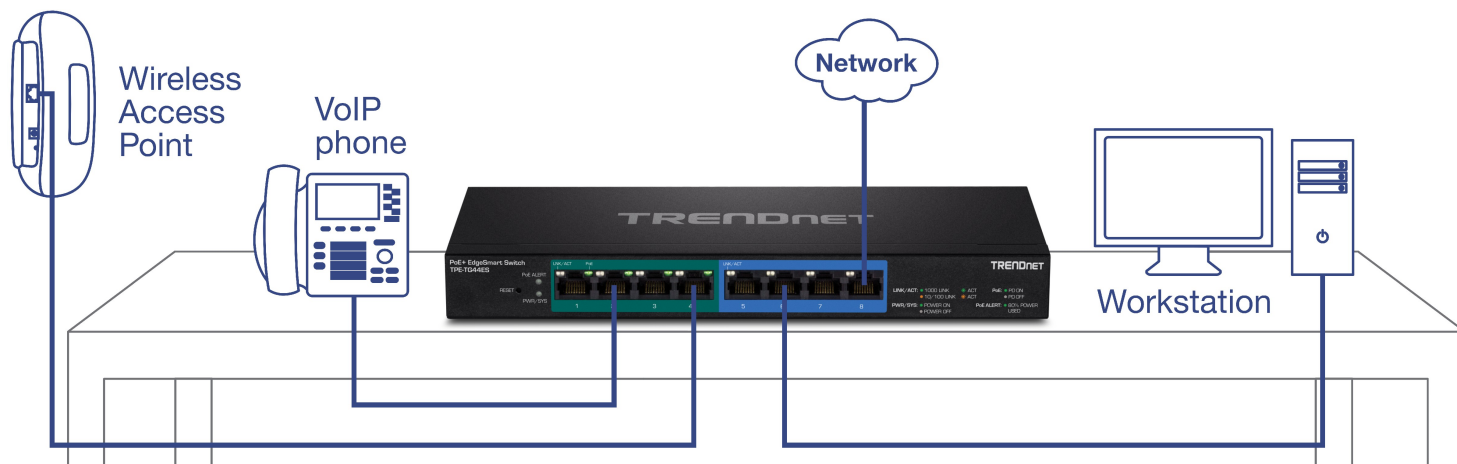
Provides an easy to use web-based GUI management for reduced switch configuration complexity and offers a combination of more commonly used SMB management features for easy deployment.



Integration Flexibility

Managed features include VLAN, IGMP Snooping, and QoS for flexible network integration.

Networking Solution





Ports

Four gigabit PoE+ ports and four gigabit ports provides a 16Gbps switching capacity



PoE Power

Supplies up to 30W of PoE+ power per PoE port with a 60W power budget



Compact Design

With a compact and lightweight housing design this switch is well-suited for desktop installations. Its fanless design is perfect for quiet environments that require silent operation



Network Management

A broad range of network configurations are supported by: 802.3ad link aggregation, 802.1Q VLAN, bandwidth controls, IGMP, loopback detection, port mirroring and 802.1p (QoS)



Troubleshooting

Traffic statistics and a convenient cable diagnostic test aid in network troubleshooting



Housing

Compact wall mountable metal housing



LED Indicators

LED indicators convey port status

Specifications

Standards

- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3af (15.4 Watts/port)
- IEEE 802.3at (30 Watts/port)
- IEEE 802.3az

Device Interface

- 4 x Gigabit PoE+ ports (1-4)
- 4 x Gigabit ports (5-8)
- LED indicators
- Reset button

Data Transfer Rate

- Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex)
- Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)
- Gigabit Ethernet: 2000 Mbps (full duplex)

Performance

- Switch fabric: 16 Gbps
- RAM buffer: 192 kg
- MAC Address Table: 4K entries
- Jumbo Frames: 9 Kbytes
- Forwarding rate: 11.9 Mpps (64-byte packet size)

Management

- HTTP Web based GUI
- Backup/Restore configuration
- Upgrade firmware

Link Aggregation

- 802.3ad Dynamic LACP

Quality of Service (QoS)

- Port-based QoS
- 802.1p Class of Service (CoS)
- Bandwidth Control/Rate Limiting per port (Min. Limit: 512Kbps)
- Queue Scheduling: Strict Priority, Weighted Round Robin (WRR)

VLAN

- Port-based VLAN
- 802.1Q Tagged VLAN
- Up to 32 VLAN groups, ID Range 1-4094

Multicast

- IGMP Snooping v1/2/3
- Block unknown multicast source
- Up to 128 multicast entries

Port Mirror

- One to one
- Many to one
- Access Control
- Trusted Host/IP Access List

Storm control

- Broadcast (Min. Limit: 512Kbps)
- Multicast (Min. Limit: 512Kbps)
- Destination Lookup Failure (DLF) (Min. Limit: 512Kbps)
- Loopback Detection

Special Features

- PoE+ support
- Enable/disable 802.3az Power Saving
- Wall mountable

Power

- Input: 100 - 240 V AC , 50/60 Hz, 2.5 A

- Output: 55 DC, 1.3 external power adapter
- Consumption: 65.28 W (max.)

PoE

- PoE budget: 60W
- 802.3at: Up to 30 W per port (ports 1-4)
- Mode A: Pins 1,2 for power(+) and pins 3,6 for power(-)
- PD auto classification
- Over current/short circuit protection

Fan/Acoustics

- Fanless design

MTBF

- 1,089,244 hours

Operating Temperature

- 0 – 50°C (32 - 122°F)

Operating Humidity

- Max. 95% non-condensing

Dimensions

- 240 x 105 x 27 mm (9.45 x 4.1 x 1.06 in.)
- Wall mountable

Weight

- 576 g (20.3 oz.)

Certifications

- CE
- FCC

Warranty

- Limited Lifetime Warranty*

Package Contents

- TPE-TG44ES
- Quick Installation Guide
- CD-ROM (User's Guide)
- Power adapter (55V DC, 1.3 A)

TRENDnet offers a limited lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.

AXIS A1001 Network Door Controller

Open and flexible—powered by IP

AXIS A1001 Network Door Controller is a non-proprietary, open, and IP-based access controller suitable for both smaller installations and advanced enterprise systems. AXIS A1001 comes with built-in software for basic access management and is also open for third-party software. This allows the unit to be integrated with other systems such as video surveillance, intrusion detection and time and attendance. The controller is powered over Ethernet and can also power connected equipment, minimizing the need for extra cabling. AXIS A1001 is a smart independent device that is installed by each door, making the solution scalable. Using open standards, it is also future-proof.

- > [Based on Axis open platforms](#)
- > [ONVIF Profile A and C compliant](#)
- > [UL 294 approved](#)
- > [Supports most reader types](#)
- > [Ease of installation and PoE support](#)



AXIS A1001 Network Door Controller

Door controller		Event triggers	Tamper detection, Power loss, Network lost, Configuration, Door, Event logger, Hardware, Input signal, Schedule, System, Time
Readers	Up to 2 readers per controller (Wiegand, RS485 (OSDP)) with supported card formats. Integration with ASSA ABLOY Aperio® wireless lock technology.	General	
Doors	1–2 doors per controller ^a	Casing	Plastic
Credentials	Firmware version 1.50.0 or later: Up to 50 000 with third-party access management software depending on server capacity. Firmware versions earlier than 1.50.0: Up to 15 000 with third-party access management software depending on server capacity	Software	Configuration and basic access control management through Internet Explorer, Firefox, Chrome, or Safari Supported languages: English, French, Italian, German and Spanish
Event history	30 000 First In, First Out (FIFO) per controller	Memory	256 MB RAM, 500 MB Flash
Access schedules	Unlimited or third-party software dependent	Power	Power in: 10–30 V DC, max 26 W or Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Power out & relay: 1x 12 V DC, max 500 mA 1x solid state relay 30 V DC, max 700 mA Power out lock: 2x 12 V DC, max 500 mA Total power budget if powered by DC: 1166 mA at 12 V for peripheral devices (locks, readers etc.) Total power budget if powered by PoE: 625 mA at 12 V for peripheral devices (locks, readers etc.)
I/O interface		Connectors	RJ45 10BASE-T/100BASE-TX Terminal blocks: DC power, 10 Inputs/Outputs, RS485/Wiegand, Relay, Cable size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
I/O functionality	Reader I/O: DC output: 2x 12 V DC output max 300 mA; 2x 4 configurable inputs/outputs, (Digital input: 0 to max 40 V DC, Digital output: 0 to max 40 V DC, Open drain, max 100 mA) Reader data: RS485 full duplex, RS485 half duplex, Wiegand Auxiliary: 1x 3.3 V DC output, max 100 mA 2x configurable inputs/output (Digital input: 0 to max 40 V DC, Digital output: 0 to max 40 V DC, Open drain, max 100 mA) Door connectors: 2x 2 input for door monitors and REX (Digital input: 0 to max 40 V DC) Pre-configured for readers and door monitors, Input trigger, Output toggle/pulse	Operating conditions	0°C to 50°C (32 F to 122 F) Humidity 20–85% RH (non-condensing)
Network		Approvals	EN 55022 Class B, EN 50130-4, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-003 Class B, C-tick AS/NZS CISPR22 Class B, VCCI Class B, IEC/EN/UL 60950-1, UL 294, UL 2043, EN 50581
Security	Password protection, IP address filtering, HTTPS ^b encryption, IEEE 802.1X network access control, Digest authentication, User access log	Dimensions	45.5 x 180 x 180 mm (1.8 x 7.1 x 7.1 in)
Supported protocols	IPv4, HTTP, HTTPS ^b , TLS ^b , QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	Weight	500 g (1.1 lb)
System integration		Included accessories	Connector kit, Cable ties, Installation Guide
Application Programming Interface	Open API for software integration, including VAPIX®, specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile C and ONVIF Profile A, specification at www.onvif.org	Optional accessories	AXIS T8120 Midspan 15 W, AXIS T8128 PoE Splitter 24 V (requires 30 W midspan), AXIS T8129 PoE Extender Mains adaptor 24 V DC, AXIS T98A15-VE Surveillance Cabinet ^c
Supported products	AXIS A9188 Network I/O Relay Module AXIS A4010-E Reader AXIS A4011-E Reader AXIS Access Card 1K Aperio RS485 Communication Hub SmartIntego TCP/IP GatewayNode	Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty
Events & alarms		<p>a. <i>Power consumption dependent; max load for locks, readers and other equipment is 7.5 W with PoE and 14 W with 10–30 V DC.</i></p> <p>b. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/), and cryptographic software written by Eric Young (ey@cryptsoft.com).</i></p> <p>c. <i>In outdoor installations combining AXIS A1001 and AXIS T98A15-VE, the allowed maximum voltage is 30 V DC.</i></p>	
Tamper detection	Removal of unit cover/tamper front Removal of unit from wall/tamper back, Reader tamper	Environmental responsibility:	
Event log	Configurable by time and topic, Alarm acknowledgement	www.axis.com/environmental-responsibility	
Event actions	Notification via email, HTTP and TCP, External output port Status LED		



PRODUCT FEATURES

- Ultra-secure Direct Mount to the door frame for strength and reliability
- Fully sealed for weather-proof operations
- Sealed 10 ft. [3.05m] jacketed, stranded conductor cable
- Automatic dual voltage – no field adjustment required
- Instant release circuit – no residual magnetism
- Noise suppression – no interference with sensitive electronics
- Efficient, low power usage
- All ferrous metal surfaces plated for durability and rust resistance
- MagnaCare Lifetime Replacement No Fault Warranty

PRODUCT OPTIONS

- Flexible mounting options for
 - › Out-swing doors
 - › In-swing doors (-F, add to any model for Face Drilled)
 - › Metal, wood, Herculite or glass with aluminum frame
- BondSTAT magnetic bond sensor – Patented (MBS)
- Integrated door position switch (DPS)
- Dress covers

SPECIFICATIONS

- UL 10C Listed
- CAN4-S104, CAN/ULC-S533 Listed
- ANSI/UL 294 Listed
- CSA-C22.2 No.205 Listed
- ANSI/BHMA 156.23, Grade 1; E08501-500
- NFPA 101
- CSFM- California State Fire Marshal Approved
- MEA – City of New York Approved
- CE-EN 50091-1, EN 61000-6-2 Approved
- NEMA: 4X
- IEC: IP66
- Patent: 8,094,017
- Patents Pending

Holding Force:
600lbs [272kg]

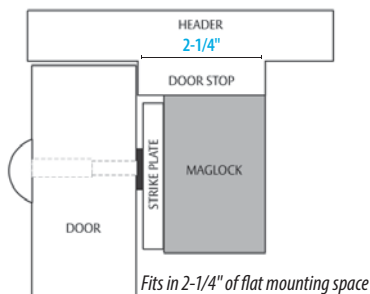
Dimensions:
MagnaLock: 8" L x 1-5/8" D x 1-7/8" H
Strike: 6-1/4" L x 1/2" D x 1-5/8" H

Electrical:
300mA at 12VDC
150mA at 24VDC

Operating Temperature:
-40 to +140F [-40 to +60C]
Indoor or Outdoor use

Shipping Weight:
6lbs [2.72kg]

Finishes:
US32D/630 – Satin Stainless Steel



M32 SERIES

600lbs Holding Force

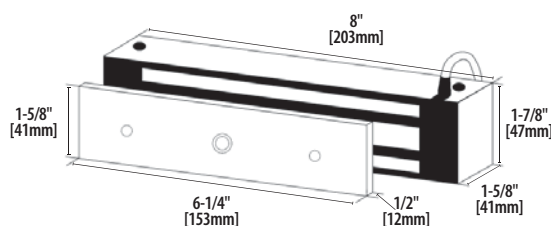
The Ultimate in Magnalock® Reliability for Indoor/Outdoor Traffic Control

The M32 electromagnetic lock is ideal for traffic control in high-use areas within secured or monitored perimeters. With unsurpassed durability, the M32 will last long after most buildings wear out. Applications include storage areas, rooms, and hallways where reliability, high durability and low-maintenance are required.

MODELS

PART # | Description

M32	M32 Magnalock- 12/24VDC
M32B	M32 Magnalock- 12/24VDC, MBS
M32BD	M32 Magnalock- 12/24VDC, MBS, DPS
M32D	M32 Magnalock- 12/24VDC, DPS
M32F	M32 Magnalock- 12/24VDC, Face Drilled
M32FB	M32 Magnalock- 12/24VDC, Face Drilled, MBS
M32FBD	M32 Magnalock- 12/24VDC, Face Drilled, MBS, DPS
M32FD	M32 Magnalock- 12/24VDC, Face Drilled, DPS



DUAL VOLTAGE



GRADE 1



FIRE RATED

SECURITRON®
ASSA ABLOY



Model 9400



9400 Series

Surface Mounted Electric Strike

Works with rim exit devices with a 1/2" throw latchbolt

Stylish Looks

Slim-Line Profile

Unique 1/2" slim-line form
Decorative cover for a sleek look
Available in 7 finishes to match any decor

Convenient

Easy Installation

Completely surface mounted for quick installation
Installs in metal or wood frames
Simple fail secure/fail safe and 12/24VDC conversions

Quality

Reliable Strength

Exceeds Grade 1 standards for strength and performance
UL 1034 burglary-resistant listed
Components encased in 1/2" stainless steel housing

The Easy
Install,
Slim-Line,
Surface
Mounted
Solution

ASSA ABLOY, the global leader in door opening solutions

hesinnovations.com



RIM EXIT DEVICES



FIELD SELECTABLE
(12 OR 24VDC)



FIELD SELECTABLE
(FAIL SECURE / FAIL SAFE)



GRADE 1



OUTDOOR RATED



UL 1034
BURGLARY LISTED



9400 Series

Surface Mounted Electric Strike

Features

Standard Features

- Installs in metal or wood frames
- Decorative cover for a sleek look
- Stainless steel construction
- Static strength to 1,500 lbs.
- Dynamic strength to 70 ft-lbs.
- Endurance 500,000 cycles
- Field selectable fail secure/fail safe
- Dual voltage 12 or 24VDC
- Non-handed. Horizontal adjustability
- Five year limited warranty

Optional Features

- LBM** » Latchbolt monitor
- LBSM** » Latchbolt strike monitor

Accessories

- 9400/9500/9600-108** » Spacer plate (black or 630 finish)
- 9000-MTK** » Metal template kit
- SMB** » Surface mounting box
- 2001M** » Plug-in bridge rectifier
- 2004M** » ElectroLynx® adapter
- 2005M3** » SMART Pac® III
- 2006M** » Plug-in buzzer

Finishes

- 630** » Satin stainless steel
- 605** » Bright brass
- 606** » Satin brass
- 612** » Satin bronze
- 613** » Bronze toned
- 613E** » Dark oxidized satin bronze (NEW)
- 629** » Bright stainless steel

Specifications

Listings and Patents

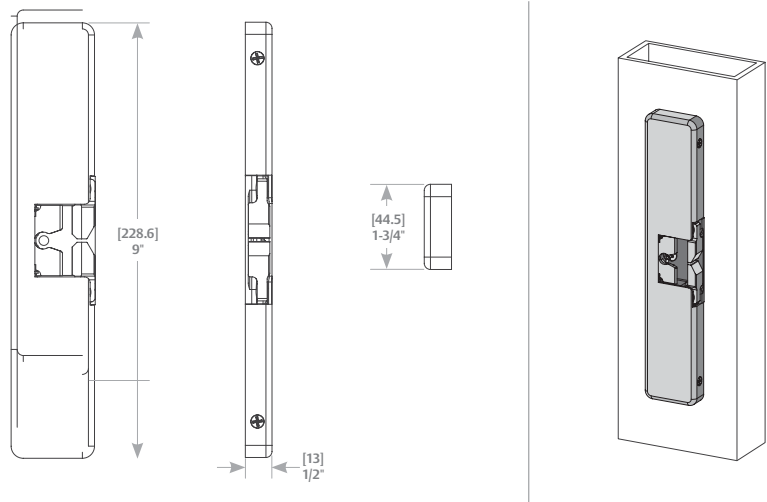
- UL 1034 burglary-resistant listed and suitable for outdoor use
- UL 294 (6th edition) listed
- ANSI/BHMA A156.31, Grade 1
- RoHS compliant
- Patents: 6,390,520; 8,454,036
- Patent Pending

Frame Application

- Metal
- Wood

Electrical (continuous duty)

- .45 Amps @ 12VDC
- .25 Amps @ 24VDC
- PoE friendly





PHYSICAL ACCESS SOLUTIONS



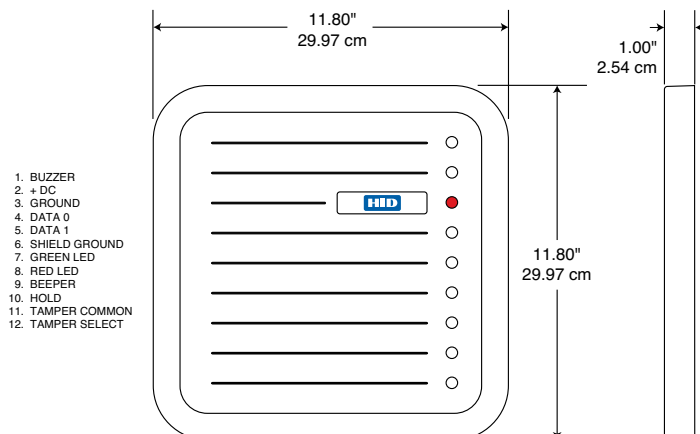
MaxiProx® Reader



VALUE PRICED PROXIMITY CARD READER

HID's MaxiProx® Reader is ideal for installations incorporating parking control and long read range applications. The MaxiProx reader packages all the electronics in one rugged, attractive and easy-to-install housing.

- Features a beeper and multicolor LED which can be host-and/or locally controlled.
- Long read range distance (up to 6' with ProxPass®).
- Autotune allows read range to be maintained within four inches of metal.
- Wiegand, Clock-and-Data and selectable serial outputs available.
- "Parking hold" feature allows connection to a loop detector to ensure accurate detection of vehicles in parking lanes.
- Compatible with all HID cards and tags with formats up to 85 bits.
- Multicolor LED with internal or host control of the LED and beeper.
- Two MaxiProx units can operate one meter apart for "HI-LO" (truck and car) installations.
- Reader supervision signal for CASI-RUSCO® panels.





FEATURES:

- **Security** – Includes a tamper switch to provide electronic notification of reader tampering. Recognizes card formats up to 85 bits.
- **Audiovisual Indication** – When a proximity card is presented to the reader, the red LED flashes green and the beeper sounds. The multicolor LED and beeper can also be controlled individually by the host system.
- **Diagnostics** – On reader power-up, an internal self-test routine checks and verifies the setup configuration, determines the internal or external control of the LED and beeper, and initializes reader operation. An additional external loop-back test allows for the reader outputs and inputs to be verified without the use of additional test equipment.
- **Indoor/outdoor Design** – Sealed in a rugged, weatherized polycarbonate enclosure designed to withstand harsh environments as well as provide a high degree of vandal resistance for reliable performance anywhere.
- **Easily Interfaced** – Interfaces with all existing Wiegand, Clock-and-Data, RS-232, RS-422 and RS-485 protocol access control systems. The serial interfaces support baud rates of 1200, 2400, 4800, and 9600 baud
- **Options** – LED and beeper operation; custom label



SPECIFICATIONS

*Model Name	MaxiProx®
Model Number	5375
**Read Range	ProxCard® II card - up to 24" (60.9 cm) ISOProx® II card - up to 20" (50.8 cm) DuoProx® II Card - up to 20" (50.8 cm) Smart ISOProx® II - up to 20" (50.8 cm) Smart DuoProx® II Card - up to 20" (50.8 cm) HID Proximity & MIFARE® Card - up to 20" (50.8 cm) ProxCard® Plus card - up to 13" (33 cm) ProxKey® II key fob - up to 17" (43.2 cm) MicroProx® Tag - up to 15" (38 cm) ProxPass® Active Vehicle Tag - up to 6' (1.8 m)
Mounting	Mount on non-metallic surfaces for optimal read range performance.
Color	Gray
Keypad	No
Dimensions	11.8" x 11.8" x 1.0" (30.0 x 30.0 x 2.54 cm)
Power Supply	Configurable 12 or 24 VDC
Power Requirements (Standard Power)	DC Current at 12V: Avg. 200mA, Peak 700mA DC Current at 24V: Avg. 260mA, Peak 1.2A
Operating Temperature	-22° to 150° F (-30° to 65° C)
Operating Humidity	0-95% relative humidity noncondensing
Transmit Frequency	125 kHz
Environmental	IP55
Cable Distance	Wiegand interface: 500 feet (152 m) Clock-and-data interface: 50 feet (15 m) RS-232: 50-200 feet (15-61 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control. RS-422 and RS-485: 4000 feet (1219 m) Recommended cable is ALPHA 1297.
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), iDA (Singapore), RoHS
Housing Material	UL94 Polycarbonate
Warranty	Lifetime

*Consult How to Order Guide for specific ordering instructions.

**Dependent upon installation conditions

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ASSA ABLOY

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2012-04-02-prox-maxiprox-reader-ds-en



PHYSICAL ACCESS CONTROL

HID Mobile Access® iCLASS SE® & multiCLASS SE® Mobile Enabled Readers



MOBILE ENABLED iCLASS SE PLATFORM READERS THAT OFFER NEW WAYS TO OPEN DOORS

- **Innovative** – Enables secure access with a mobile device by leveraging standard communications technologies that work with both iOS® and Android™ operating systems.
- **Convenient** – Enhances the transactional experience by opening doors with a tap or “Twist and Go” gesture, merging security with convenience.
- **Dynamic** – Supports new Mobile IDs and existing card populations for seamless migration to a more secure standard.

A UNIQUE USER EXPERIENCE

HID Mobile Access® offers a patented gesture technology that allows door and gate access with a twist of the handset upon approaching an iCLASS SE® or multiCLASS SE® mobile-enabled reader.

iCLASS SE® AND multiCLASS® SE MOBILE-ENABLED READERS FEATURES:

- Adjustable read settings control overall power and read range of Mobile IDs, enabling flexibility for both close-proximity “tap” and long-range “Twist and Go” distances.
- Read settings administered using mobile phone during installation.
- Directional antenna enables long-range reading distances of up to 6.6’ in correct orientation – in front of the reader and not behind it.

iCLASS SE® and multiCLASS SE® mobile-enabled readers are part of the HID Mobile Access® solution that offers a consistent user experience across different devices and operating systems, including iOS and Android. The readers can be configured to using a smartphone with a “tap” or utilizing HID Global’s patented “Twist and Go” gesture technology.

Ideal for new and existing installations, the interoperable iCLASS SE and multiCLASS SE readers support a variety of industry-standard technologies, including iCLASS Seos®, standard iCLASS®, iCLASS SE, MIFARE®, MIFARE DESFire® and HID Prox. Simultaneous support of mobile device and existing card populations facilitates mixed population use and migration to a more secure standard.

Advanced multi-layered security is provided via the iCLASS SE platform with its Secure Identity Object® (SIO®) data model. This additional layer of security ensures tamper-resistant protection of keys and cryptographic operations. The incorporation of Seos technology to manage identity data results in a dynamic and highly secure mobile solution.



SPECIFICATIONS

Model Name		R10	RP10	R15	RP15	R40	RP40	RK40	RPK40
Typical Read Range*		Both "Twist & Go" and "Tap" ranges are likely maximum distances based on recommended settings in a typical lab environment. Read ranges and behavior will vary by installation, due to a variety of factors. Reader-specific read range and power settings will contribute to adjusting behavior.							
Mobile IDs using Bluetooth & Seos*	Twist and Go	6.6 ft (2 m)		6.6 ft (2 m)		6.6 ft (2 m)		6.6 ft (2 m)	
	Tap	5.9" (15 cm)		5.9" (15 cm)		5.9" (15 cm)		5.9" (15 cm)	
Mounting		Mini-Mullion Size; mount on door mullion or any flat surface		Mullion Size; mount on door mullion or any flat surface		Wall Switch Size; designed to mount to and cover single-gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing		Wall Switch Size; designed to mount to and cover single-gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing	
Color		Black or Gray							
Keypad		No		No		No		Yes (4x3)	
Dimensions		1.9" x 4.1" x 0.9" 4.8 cm x 10.3 cm x 2.3 cm		1.9" x 6.0" x 0.9" 4.8 cm x 15.3 cm x 2.3 cm		3.3" x 4.8" x 1.0" 8.4 cm x 12.2 cm x 2.4 cm		3.3" x 4.8" x 1.1" 8.5 cm x 12.2 cm x 2.8 cm	
Operating Voltage Range		5-16 VDC; Linear supply recommended							
Standby AVG Current		82 mA	97 mA	82 mA	97 mA	87 mA	107 mA	107 mA	117 mA
PEAK Current		240 mA	240 mA	240 mA	240 mA	240 mA	240 mA	260 mA	260 mA
Operating Temperature		-13° to 150° F (-25° to 65° C)							
Storage Temperature		-67° to 185° F (-55° to 85° C)							
Operating Humidity		5% to 95% relative humidity non-condensing							
Transmit Frequency		2.4GHz, 13.56 MHz							
2.4 GHz Credential Compatibility*		Secure Identity Object (SIO) on Mobile IDs (Bluetooth Smart)							
13.56 MHz Credential Compatibility		Secure Identity Object (SIO) on iCLASS Seos, iCLASS SE, SIO-enabled MIFARE DESFire EV1 and SIO-enabled MIFARE Classicstandard iCLASS Access Control Application (standard iCLASS cards) ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN Custom sectors on MIFARE, Custom app/file on DESFire EV1 (custom programming feature) Secure Identity Object (SIO) on NFC-enabled devices using Host-Based Card Emulation							
125 kHz Credential Compatibility (multiCLASS only)		HID Prox, AWID, EM4102							
Cable Distance		Optional OSDP with SCP over RS485 (4000 ft) Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG) Use Shielded cable for best results							
Reader Personalization		Mobile-enabled readers come fully personalized to read customer/site-specific Mobile IDs. Mobile-ready readers come fully prepared to read Mobile IDs but to do not include customer/site-specific personalization. Install Mobile-ready readers to prepare for Mobile IDs in the future.							
Panel Connection		Pigtail or Terminal Strip							
Certifications		Bluetooth SIG certification, UL-294/cUL (US & Canada), FCC certification (US), IC (Industry Canada), CE now including RoHS II, REACH							
Crypto Processor Hardware Common Criteria Rating		EAL5+							
Patents		US7124943, US6058481, US6337619							
Housing Material		UL94 Polycarbonate							
Manufactured with % of recycled content (Pigtail)		10.5%		11.0%		10.5%		10.9%	
Manufactured with % of recycled content (Terminal Strip)		10.5%		11.0%		11.0%		12.3%	
UL Ref Number		R10E	RP10E	R15E	RP15E	R40E	RP40E	RK40E	RPK40E
Warranty		Limited Lifetime							



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2016-03-21-hid-mobile-access-readers-nfc-ds-en

PLT-02094

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PHYSICAL ACCESS SOLUTIONS



THE PROXPASS® II IS AN ACTIVE TAG SPECIFICALLY DESIGNED FOR VEHICLE ACCESS CONTROL.

Features:

- Access door permits convenient battery replacement.
- Provides up to six foot read range.
- Velcro backing attaches easily to interior of vehicle windshield.
- Attractive, durable sealed case.
- Compatible with MaxiProx® reader and card formats up to 37-bits in length.
- Two to five year battery life, depending on usage.
- Competitively priced as compared to VHF vehicle tags.

- **Easily Administered** – A cross-reference list correlating the external card number and the programmed ID number provides easy system administration.
- **Security** – Offers over 137 billion unique codes.
- **Long Life** – Dual battery design and low current draw allows two to five years with typical usage.
- **Durability** – Rugged, UV-resistant, sonic-welded polycarbonate case is also weather resistant.

Providing convenient access control for parking and fleet management applications, ProxPass II is an ideal augmentation to an existing or new HID proximity installation. The ProxPass II can be encoded with HID formats up to 37-bits in length used by HID proximity cards.



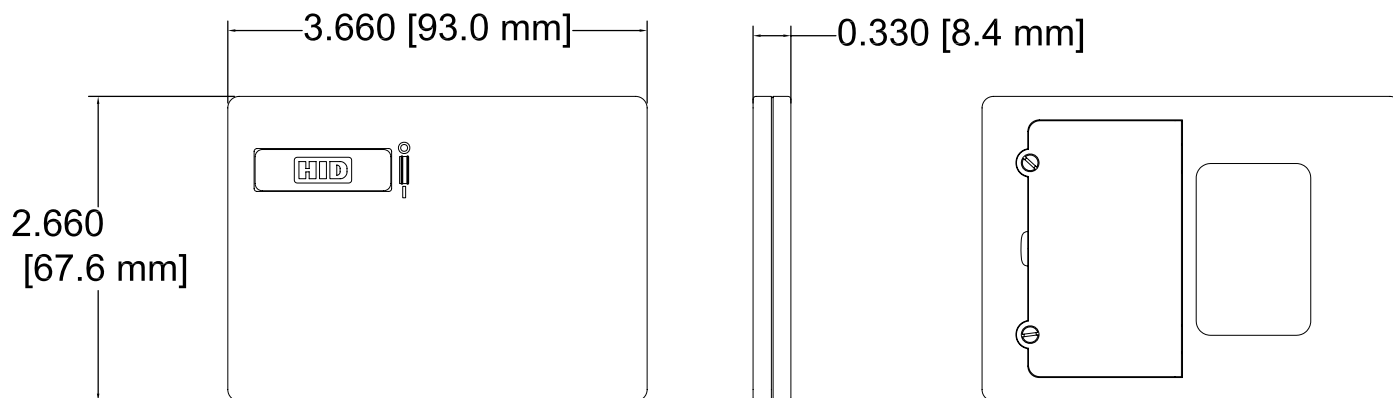
SPECIFICATIONS

ProxPass® II Active Tag

Typical Maximum* Read Range	Up to 6' (1.8 m)
Supported Formats	Supports all HID formats up to 37-bits in length. Note: This product does not support Corporate 1000 48-bit formats or any format greater than 37-bits in length.
Dimensions	3.625" x 2.65" x 0.30" (9.25cm x 6.75cm x .76cm)
Mounting Location	Interior windshield, driver's side, upper or lower corner Note: Ideal mounting location is on interior windshield glass. Mounting on metal will degrade performance.
Operating Temperature	-22° to 185° F (-30° to +85° C)
Options	External numbering
Environmental	5 - 95% RH, non-condensing (Not for marine usage)
Warranty	One year warranty against defects in materials and workmanship (see complete sales policy for details)

NOTES:

*Dependent on local installation conditions.



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2017-04-21-hid-proxpassii-cards-ds-en PLT-00492

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Customer Service Through Operational Excellence

ELECTRICAL CONSTRUCTION AND ENGINEERING SERVICES

Illinois • New York • New Jersey

February 12th, 2018

Project: USL Access Control & Surveillance
505 Walnut Avenue, Syracuse NY 13206

Huen NY Inc. is pleased to present you with an Electronic Access Control proposal for the above referenced project. This proposal represents the cost for a Turn-Key Access Control solution reflecting Axis Communications equipment/layout from the basis of design. For your convenience, we have included below an itemized breakout of equipment and any notes relating to them.

Axis Communications Access Control Devices & Associated Install/Programming Labor:

- ❖ (8) Axis Communications A1001 2-Door Networked Controller.
 - A1001 controls the functions on two doors to include the reader, strike, and any inputs or outputs that may be required at each door (i.e. activate electronic door operator)
 - Device is required by “Single-Digits” for Integration with their software platform
 - (3) Mounted in “IDF 1”
 - (1) Mounted in “IDF 2”
 - (4) Mounted in “IDF 3”
- ❖ (8) Axis Communications Core Device E-License.
 - Each A1001 requires (1) Core E-License for operation
- ❖ (15) HID Mobile-Ready Multi-Class FOB Readers.
 - Mounted on or next to each Access door
 - Mobile-Ready Credentials allows for the use of tenant’s mobile phone as FOB
 - Two methods of presenting mobile credential: “Twist-and-Go” gesture allows for granted access up to 6 ½ ft. away. “Tap” feature replicates the common method of presenting FOB to the reader at the door
- ❖ (1) HID Long-Range Vehicle FOB Reader.
 - Wall Mounted at Vehicle Entrance into Parking Garage
 - 8’ Read Distance
 - Granted Access will trigger the parking garage overhead door to open
- ❖ (-) HID ProxPass II Vehicle FOB’s.
 - Each Vehicle allowed in parking garage will be provided one vehicle FOB
 - FOB will have adhesive, Velcro strips to mount to interior of front windshield (similar to E-Z Pass), or side window
 - Number of FOB’s per customer request
 - **\$25.00/FOB – COST FOR VEHICLE FOBs NOT INCLUDED IN FINAL PRICE**
- ❖ (1) HID Mobile Software Integration licensing and set-up.
- ❖ (-) HID Mobile Credentials per customer request, minimum order of 100.
 - **\$5.00/MOBILE CREDENTIAL – COST FOR MOBILE CREDENTIALS NOT INCLUDED IN FINAL PRICE**



Customer Service Through Operational Excellence

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- ❖ (3) Altronix Access Control Power Supplies.
 - 8-Outputs mounted in “IDF1”
 - 4-Outputs mounted in “IDF2” and “IDF 3”
 - Supplies power to each electronic locking mechanism
- ❖ (15) Electrified Locking Hardware Sets.
 - Electric Locking Hardware for each Access Control Door
 - Installed and programmed to work along-side any electric door operators
- ❖ (5) TrendNet 8-port PoE, Managed, Network Switch.
 - Provides power and data transfer for Access Control Devices
 - Mounted in Network Closets
 - Switch IP addressing will be coordinated with Single-Digits Representative
- ❖ Installation, testing, and labelling of all required Cat5E cabling.
- ❖ Installation, testing, and labelling of all required 22/6 shielded card reader wire, and 18/4 Electronic lock and input/output wiring for Access Control System
- ❖ Fireproofing where required to meet code
- ❖ All required raceways, J hooks or bridle rings for a complete system
- ❖ Ground-Level/Parking garage conduit and raceway to be EMT with compression fittings where exposed or PVC below slab as needed

NOT INCLUDED:

- ❖ All Tax's and Bond's.
- ❖ All utility fees.
- ❖ Otis Elevator cost associated with their work for travelling cables leading to elevator car cameras
- ❖ Any Single-Digits sub-contracted work for the Video Surveillance System
- ❖ Network Switches for Video Surveillance System
- ❖ Software programming for Video Surveillance System
- ❖ Any cost associated with patching/painting finishes

Total price including Huen 13 month parts and labor warranty:

\$72,095.00

Plus Applicable Tax

Huen New York Inc.

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315.432.5060 • 315.432.5063 fax
24 Hour Service



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Thank you for the opportunity to quote your company this systems for your facility.
Please feel free to contact me should you have any questions.

Sincerely,
Jordan Rogers
Project Specialist

Accepted Date: _____

Accepted By: _____

Accepted Signature: _____

Huen New York Inc.

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