

LATCH[®]

Specification Guidelines

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LATCH SYSTEM SPECIFICATION GUIDELINES

1. LATCH R SERIES

The Latch R Series combines a reader, door controller, and management system into one simple product. The device directly connects to any electrified locking mechanism in addition to motion detectors and request to exit devices.



1.1 Latch R, General Specifications

- 1.1.1. Mechanical Dimensions: 5.6" x 3.2" x 0.8"
- 1.1.2. Mounting: Surface mount, compatible with single-gang boxes
- 1.1.3. Environmental:
 - a. Operating and Storage Temperature: -40°C to 66°C (-40°F to 150.8°F)
 - b. Operating Humidity: 0-93% relative humidity, non-condensing at 32°C (89.6°F)
 - c. Environmental: IP65, IK04
- 1.1.4. Power: Class 2 Isolated, UL Listed DC Power Supply
 - a. Supply Voltage: 12VDC to 24VDC
 - b. Operating Power: 3W (0.25A@12VDC, 0.12A@24VDC)
- 1.1.5. Credentials Types: Smartphone, NFC Card, Doorcode
- 1.1.6. Users: 5000
- 1.1.7. Camera: 135° image capture
- 1.1.8. Configuration: With existing access control panel or standalone
- 1.1.9. Lock Relay: Configurable type C relay, 1.5A @24VDC or @24VAC maximum
- 1.1.10. Inputs and Outputs: 3 configurable inputs/outputs
- 1.1.11. Termination: 10 conductor cable with pre-tinned leads
- 1.1.12. Management: App and Cloud
- 1.1.13. Wireless Standards:
 - a. Near Field Communication (NFC)
 - NFC Frequency: 13.56 MHz
 - NFC Read Range: Up to 0.75"
 - NFC Type: MiFare Classic
 - b. Bluetooth Low Energy (BLE)
- 1.1.14. Wired Standards:
 - a. Ethernet: 10/100Mbps, RJ45 Male Plug
 - b. Serial: RS-485
 - c. Wiegand: Output only
- 1.1.15. Supported Smartphones: iOS and Android (see website for full supported smartphones list)
- 1.1.16. Visual Communications: 7 white LEDs
- 1.1.17. Interface: Mobile apps, touchpad, NFC, and web
- 1.1.18. Warranty: 1-year limited warranty on electronic components, 5-year limited warranty on mechanical components

1.1.19. Certifications:

- a. FCC Part 15 (US)
- b. IC RSS (Canada)
- c. UL 294
- d. UL/CSA 62368-1
- e. RoHS

1.2 Latch R, Standalone Configuration

In this configuration, R Reader controls the door's locking hardware through its dry contact relay outputs.

Request to Exit button tied to R Reader's IO1 inputs.

Diagram 1. Latch R Standalone Configuration Wiring Requirements

*** Minimum Wiring Recommendations**

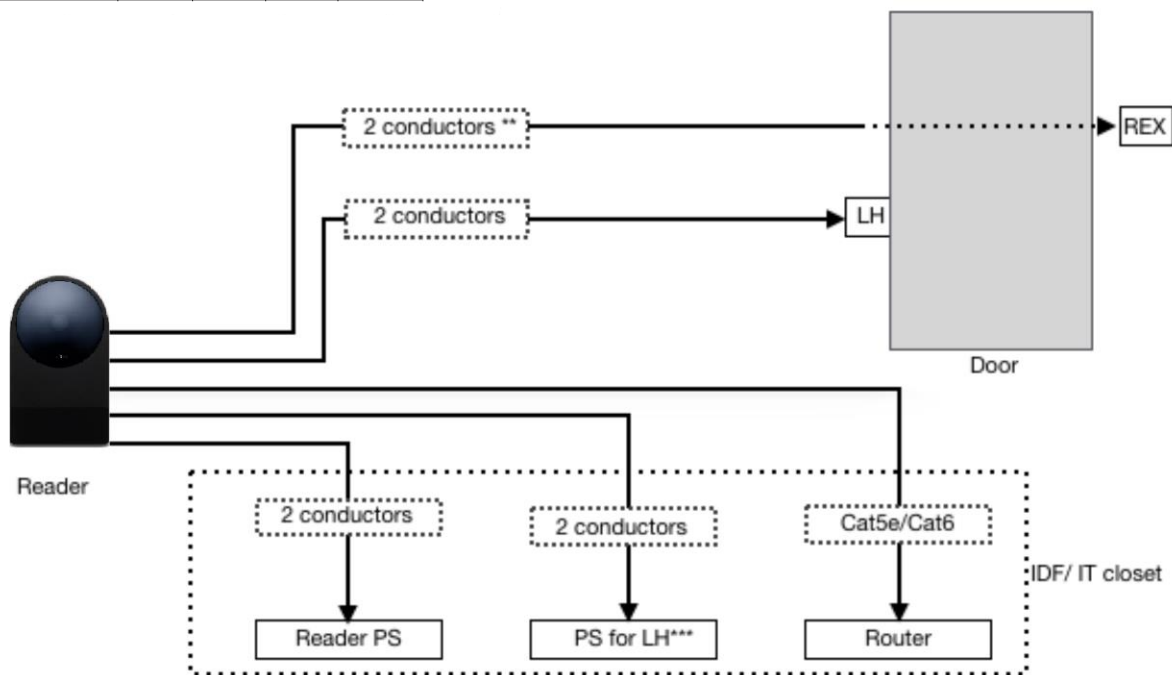
Distance	< 50ft	< 200ft	< 500ft	< 1000ft
Power	12V 22AWG	20AWG	18AWG	14AWG
	24V 22AWG	20AWG	20AWG	20AWG
Relay	22AWG	20AWG	18AWG	--
Wiegand (Shielded)	22AWG	22AWG	18AWG	--

Key:

PS - Power supply

LH - Locking hardware (electric strike/mag lock)

Router - Network switch/router for internet connection



* Shielded cable

** power conductors not included. Include if necessary.

*** If necessary. Reader power supply can be shared if LH has the correct specification 12-24VDC

1.3 Latch R, Standalone with Door State Notification (DSN) Configuration

Door State Notifications will send notifications to subscribed Property Managers for the following Door States:

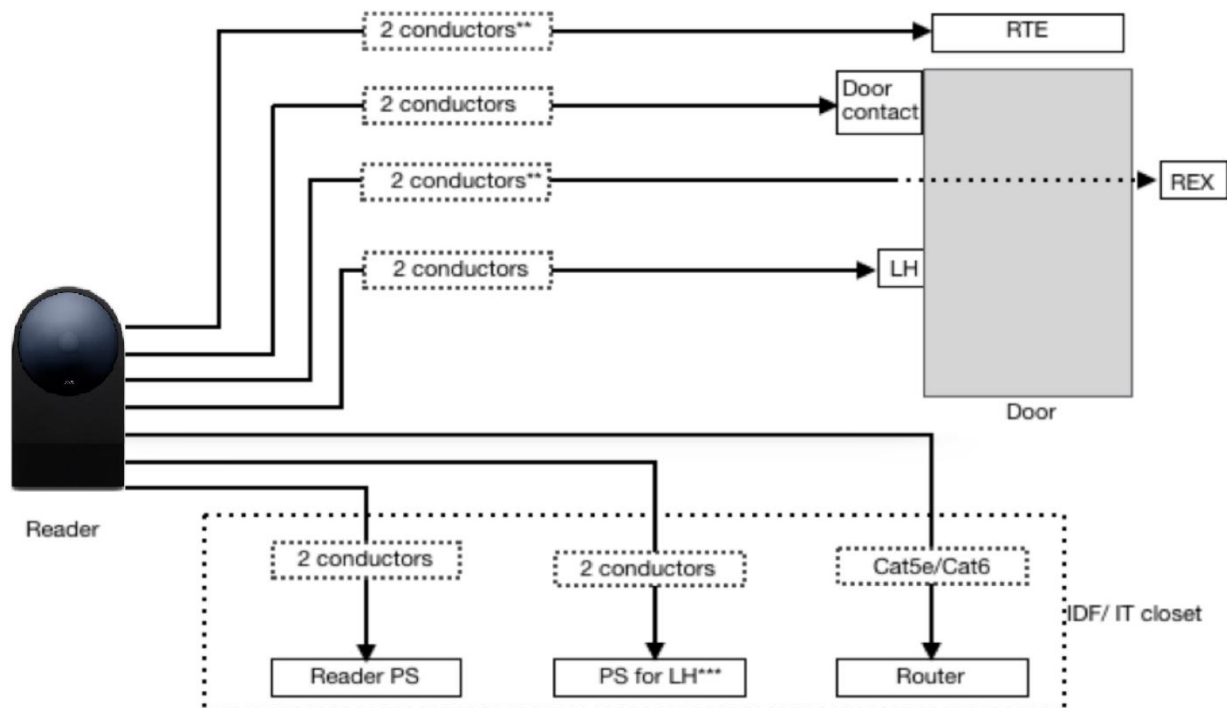
1. Door Ajar: The door is held open for an extended time period.
 - a. Time period configurable between 30, 60, and 90 seconds.
2. Door Still Ajar:
 - a. Time period configurable between 5, 10, and 15 minutes.
 - b. This notification is repeatedly sent at this interval until the door is closed.
3. Door Breached: The door is forced open.
 - a. When the door is opened from the outside without a valid credential.
4. Door Secured: The door is closed after any of the above Door States.

Diagram 2: Latch R Standalone Configuration Wiring with Door State Notification (DSN)

Key:
 PS - Power supply
 LH - Locking hardware (electric strike/mag lock)
 Router - Network switch/router for internet connection

* Minimum Wiring Recommendations

Distance	< 50ft	< 200ft	< 500ft	< 1000ft
Power	12V 22AWG	20AWG	18AWG	14AWG
	24V 22AWG	20AWG	20AWG	20AWG
Relay	22AWG	20AWG	18AWG	---
Wiegand (Shielded)	22AWG	22AWG	18AWG	---



* Shielded cable

** power conductors not included. Include if necessary.

*** If necessary. Reader power supply can be shared if LH has the correct specification 12-24VDC

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1.4 Latch R, Wiegand-Interfaced with 3rd Party Access Control Panel

In this configuration, the R Reader is Wiegand-interfaced with a 3rd party access control panel. The door's locking hardware operation and door state monitoring are performed by the access control panel. Any 3rd party access control panel that supports the 26-bit Wiegand format is compatible.

Diagram 3: Latch R Wiegand-interfaced with 3rd party Access Control Panel Wiring Requirements

Key:

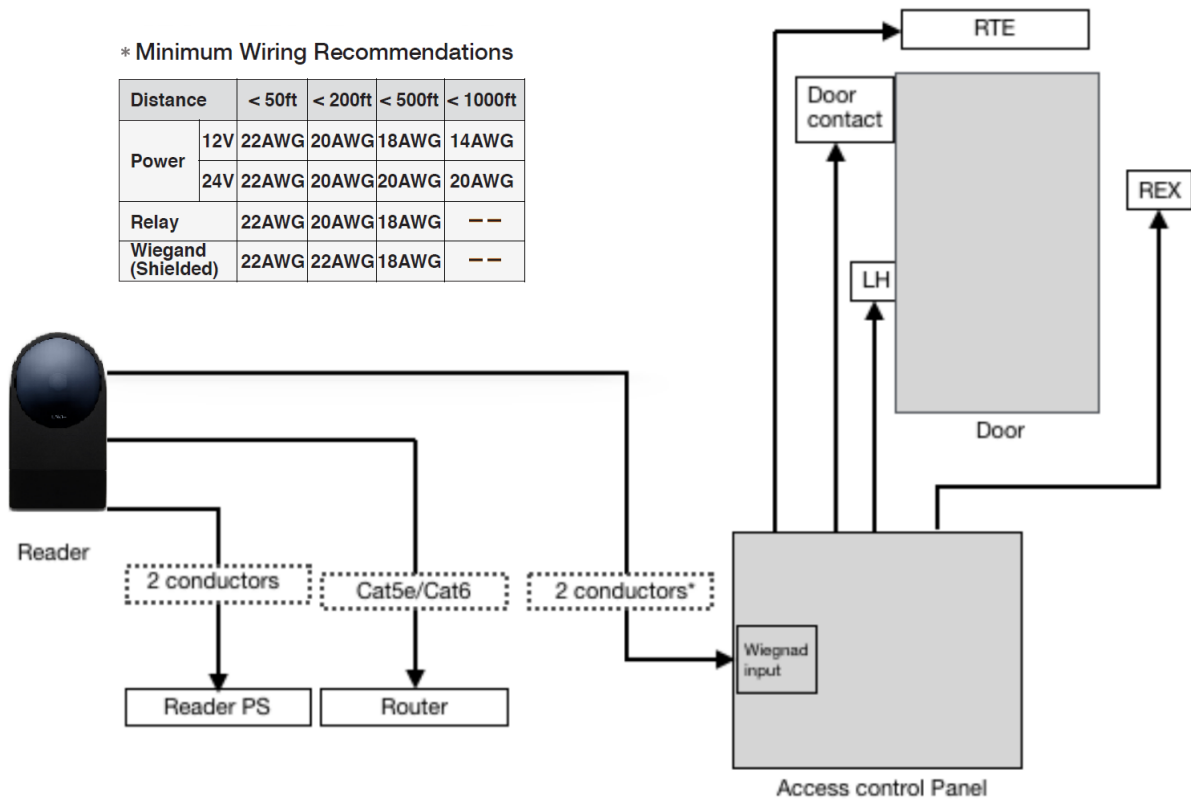
PS - Power supply

LH - Locking hardware (electric strike/mag lock)

Router - Network switch/router for internet connection

*** Minimum Wiring Recommendations**

Distance	< 50ft	< 200ft	< 500ft	< 1000ft
Power	12V 22AWG	20AWG	18AWG	14AWG
	24V 22AWG	20AWG	20AWG	20AWG
Relay	22AWG	20AWG	18AWG	--
Wiegand (Shielded)	22AWG	22AWG	18AWG	--



Note: Refer to Wiegand panel instructions for connections

* Shielded cable

1.5 Latch R, Elevator Floor Access (EFA)

In this configuration, the R Reader is Wiegand-interfaced with a 3rd party access control panel. Control panel outputs are tied to an elevator controller. Internet must be provided to the R Reader. If the R Reader is installed inside an elevator cab, Coax cable and Ethernet over Coax transceivers should be used to assure the R's internet connection. Latch-approved 3rd party access control panels for EFA are:

- Brivo: ACS6000
- KeyScan: EC1500, EC2500
- Software House: iSTAR Edge, iSTAR Ultra, iSTAR Pro
- S2 reader blades

Diagram 4: Latch R Elevator Floor Access (EFA) Wiring Requirements

Key:

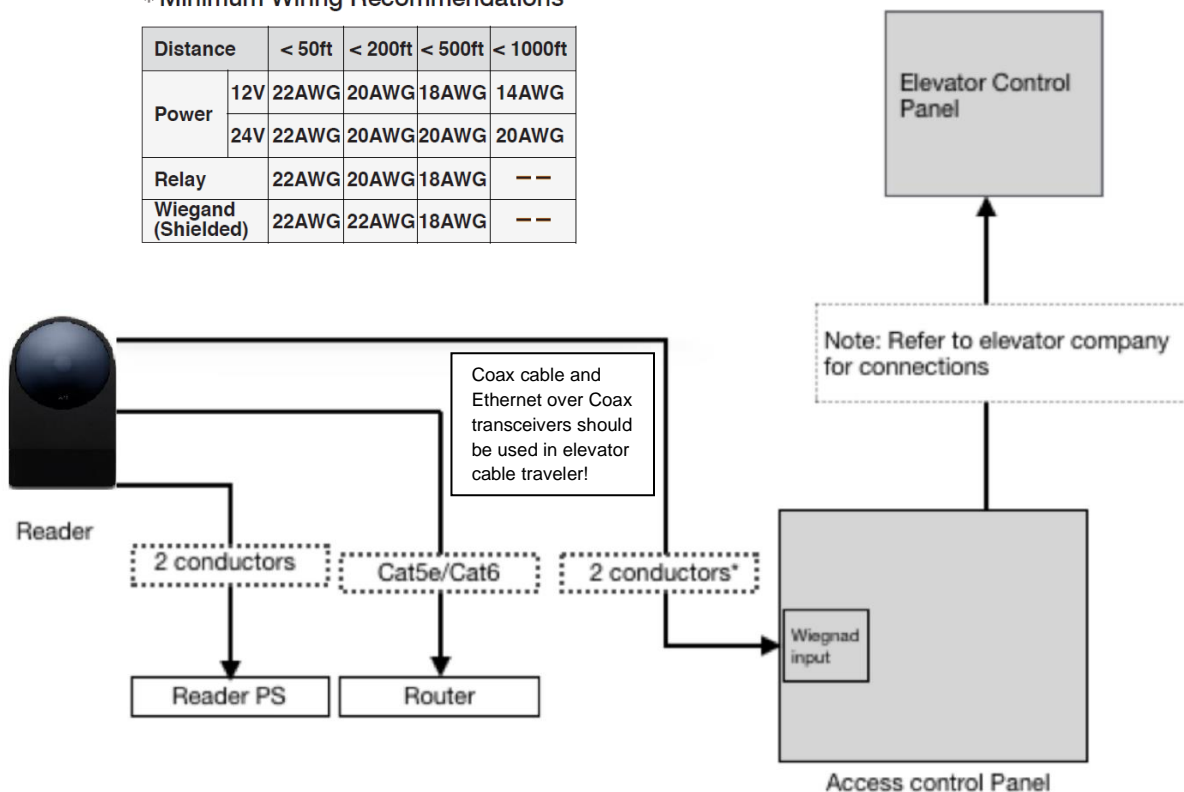
PS - Power supply

LH - Locking hardware (electric strike/mag lock)

Router - Network switch/router for internet connection

*** Minimum Wiring Recommendations**

Distance		< 50ft	< 200ft	< 500ft	< 1000ft
Power	12V	22AWG	20AWG	18AWG	14AWG
	24V	22AWG	20AWG	20AWG	20AWG
Relay		22AWG	20AWG	18AWG	--
Wiegand (Shielded)		22AWG	22AWG	18AWG	--



* Shielded cable proper grounding required.

1.6 Latch R, Elevator Destination Dispatch

Destination dispatch is an optimization technique used for multi-elevator installations. It groups passengers going to the same destinations in the same elevators. This reduces wait and travel times when compared to the traditional approach where all passengers enter any available elevator and then request their destination. To use destination dispatch, passengers request to travel to a particular floor using a keypad in the lobby and are directed to the appropriate elevator car.

In order to provide Elevator Destination Dispatch abilities, the Latch R needs to be integrated with Braxos Steward Security Software platform.

Note: ProMag Wiegand to IP converter is required per each Latch R used.

Diagram 5: Latch R interfaced with Braxos Steward for Elevator Destination Dispatch

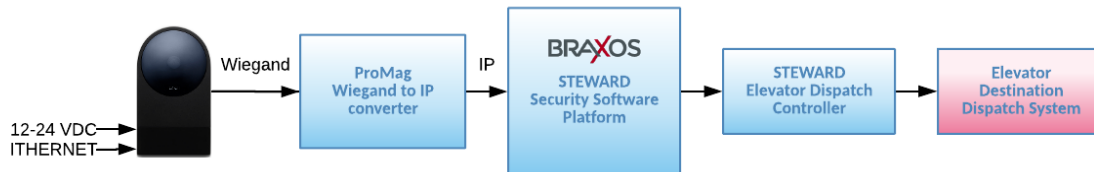
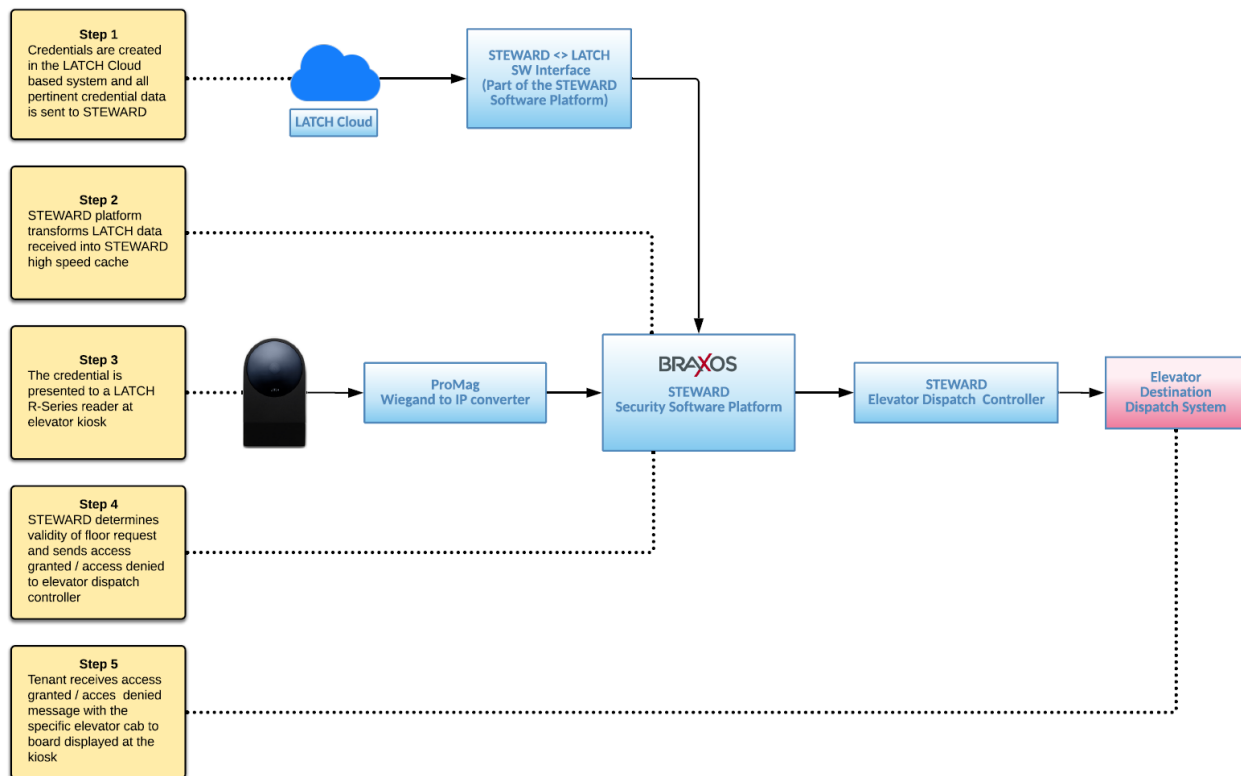


Diagram 6: LATCH-BRAXOS STEWARD Destination Dispatch Elevator Control Workflow Diagram



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2. LATCH INTERCOM

The Latch Intercom is simple, flexible, secure, and designed to always let the right people in. Tactile buttons accommodate every visitor in all weather conditions, new connectivity options enable easier installs at every door, and the fiber composite shell and impact-resistant glass are the perfect complement for the modern building.



2.1 Latch Intercom, General Specifications

- 2.1.1. Mechanical Dimensions: 12.82" X 6.53" X 1.38"
325.6mm X 166.0mm X 35.1mm
- 2.1.2. Mounting: Surface mount
- 2.1.3. Materials: Stainless steel, glass fiber reinforced resin, and impact-resistant glass
- 2.1.4. Environmental:
 - a. Operating Temperature: -30°C to 60°C (-22°F to 140°F)
 - b. Humidity: 95%, non-condensing
 - c. Dust and Water resistance: IP65
- 2.1.5. Power:
 - a. Power Supply: Class 2 Isolated, UL Listed DC Power Supply
 - b. Supply Voltage: 12VDC to 24VDC
 - c. PoE: 802.3bt with 50W+
 - d. Power Consumption: Typical: 20W, Max: 50W
- 2.1.6. Communication:
 - a. Ethernet: Cat5e/Cat6 10/100/1000 Mbps
 - b. WiFi: 2.4/5 GHz, 802.11a/b/g/n/ac
 - c. Cellular: Category 1
 - d. Bluetooth: Bluetooth 4.2
 - e. IP Address: DHCP or Static IP

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[Latch Intercom Tech Specs](#)

- 2.1.7. Audio and Video:
 - a. Loudness: 90dB max volume
 - b. Microphone: Dual microphone, echo cancellation, and noise reduction
 - c. Supported Cameras: Can be paired with Latch Camera
 - d. Supported in-unit VoIP PBX terminal: Fanvil i10D SIP Mini Intercom
- 2.1.8. Screen:
 - a. Brightness: 1000 nits
 - b. Viewing Angle: 176 degrees
 - c. Size: 7" diagonal
 - d. Coatings: Anti-reflection, anti-fingerprint
- 2.1.9. Certifications:
 - a. FCC Part 15 Subpart B/C/E
 - b. FCC Part 24
 - c. IC RSS-130/133/139/247
 - d. PTCRB
 - e. UL62368-1
 - f. UL294
 - g. IP65
- 2.1.10. Compliance:
 - a. Complies with Americans with Disabilities Act

[Latch Intercom Installation Guide](#)

[Latch Intercom Tech Specs](#)

3. LATCH CAMERA

The Latch Camera complements the Latch Intercom solution, providing safe and secure video calling for residents and guests.



3.1 Latch Camera, General Specifications

3.1.1. Mechanical

- a. Mechanical Dimensions: 5.3" x 4.1"
- b. Weight: 819 g.
- c. Mounting: Surface mount, 4" electrical octagon box & single gangbox using Latch Camera Adaptor Plate

3.1.2. Environmental:

- a. Operating Temperature: -30°C - 60°C (-22°F - 140°F)
- b. Humidity: 90%, non-condensing
- c. Dust and Water Resistance: IP66, IK10
- d. Power: IEEE 802.3af PoE Class 0
- e. Power Consumption: Max. 12.95 W (IR on)
Max. 9 W (IR off)

3.1.3. System:

- a. Model: LC9368-HTV
- b. CPU: Multimedia SoC (system-on-chip)
- c. Flash: 128MB
- d. RAM: 256MB
- e. Storage: 256GB SD card

3.1.4. Camera Features

- a. Image Sensor: 1/2.9" progressive CMOS
- b. Max. Resolution: 1920x1080 (2MP)
- c. Lens Type: Motorized, vari-focal, remote focus
- d. Focal Length: f = 2.8 ~ 12 mm
- e. Aperture: F1.4 ~ F2.8
- f. Auto-Iris: Fixed-iris
- g. Field of View: Horizontal: 32° - 93°
Vertical: 18° - 50°
Diagonal: 37° - 110°
- h. Shutter Time: 1/5 second to 1/32,000 second
- i. WDR Technology: WDR Pro
- j. Day/Night: Yes
- k. Removable IR-cut Filter: Yes
- l. IR Illuminators: Built-in IR Illuminators up to 30 meters with Smart IR, IR LED*2
- m. Minimum Illumination: 0.055 lux @ F1.4 (Color)
<0.005 lux @ F1.4 (B/W)
0 lux with IR illumination on
- n. Pan Range: 353°

- o. Tilt Range: 75°
- p. Rotation Range: 350°
- q. Pan/Tilt/Zoom Functionalities: ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
- r. On-Board Storage: Slot type: MicroSD/SDHC
- 3.1.5. Video:
 - a. Video Compression: H.265, H.264, MJPEG
 - b. Maximum Frame Rate: 30 fps @ 1920x1080
 - c. S/N Ratio: 68 dB
 - d. Dynamic Range: 120 dB
 - e. Video Streaming: Adjustable resolution, quality, and bitrate
 - f. Image Settings: Time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; scheduled profile settings, HLC, defog, 3DNR, video rotation
- 3.1.6. Audio:
 - a. Audio Capability: One-way audio
 - b. Audio Compression: G.711, G.726
 - c. Audio Interface: Built-in microphone
 - d. Effective Range: 5 meters
- 3.1.7. Network:
 - a. Protocols: 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv 4, IPv 6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP
 - b. Interface: 10 Base-T/100 Base-TX ethernet (RJ-45)
 - c. ONVIF: Supported
- 3.1.8. Warranty:
 - a. 12-month limited warranty
- 3.1.9. Certifications:
 - a. CE
 - b. FCC Class B
 - c. UL
 - d. LVD
 - e. VCCI
 - f. C-Tick
 - g. IP66
 - h. IK10

[What is the best position for the Latch Camera?](#)

[Adding a Latch Camera to an intercom](#)

4. LATCH M SERIES (PHASING OUT)

The Latch M has an industry standard mortise cartridge at its core, designed to meet and exceed every project requirement. It is built to the highest commercial standards, compliant with your code requirements and applicable for interior or exterior use.



4.1 Latch M, General Specifications

- 4.1.1. Mechanical Lock Body
 - a. Mechanical: Mortise deadbolt
 - b. Handing: Field reversible
 - c. Door Thickness Compatibility: 1 3/4"
 - d. Backset Compatibility: 2 3/4"
 - e. Lever Style Options: Standard and return
 - f. Latchbolt Throw: 3/4"
 - g. Deadbolt Throw: 1"
 - h. Strike Plate: 1 1/4" x 4 7/8, 1 1/4" lip
 - i. Cylinder: Schlage Type C keyway
- 4.1.2. Finish: Silver, Gold, Black
- 4.1.3. Environmental:
 - a. Operating Temperature:
 - 1. Exterior: -22°F to 158°F (-30°C to 70°C)
 - 2. Interior: -4°F to 129.2°F (-20°C to 54°C)
 - 3. Operating Humidity: 0-95% relative humidity, non-condensing
- 4.1.4. Technology Elements:
 - a. Power:
 - 1. Class 2 Isolated, UL Listed DC Power Supply
 - 2. Supply Voltage: 12VDC
 - 3. Operating Power: 2.4W (0.2A @12VDC)
 - 4. Battery Power Supply: 6 AA non-rechargeable alkaline batteries
 - 5. Battery Life: 12 months with normal usage
 - 6. Battery Status: Monitoring and notifications in Latch software suite
 - b. Wireless Standards:
 - 1. Near Field Communication (NFC)
 - 2. Bluetooth Low Energy (BLE)
 - 3. NFC Frequency: 13.56 MHz
 - 4. NFC Read Range: Up to 1.18"
 - 5. NFC Type: MIFARE Classic

- c. Credentials Types: Smartphone, NFC Card, Doorcode, Mechanical Key
 - d. Supported Smartphones: iOS and Android (see website for full supported smartphone list)
 - e. Users: 1500
 - f. Camera: 135° image capture
 - g. Management: App and Cloud
 - h. Visual Communications: 7 white LEDs
 - i. Interface: Mobile apps, touchpad, NFC, and web
- 4.1.5. Warranty:
- a. 1-year limited warranty on electronic components
 - b. 5-year limited warranty on mechanical components
- 4.1.6. Certifications:
- a. UL 10B (90min)
 - b. UL 10C (90min)
 - c. ULC S104
 - d. FCC Part 15 Subpart C
 - e. IC RSS-310
 - f. IEC 61000-4-2
 - g. FL TAS 201-94, 202-94, 203-94
 - h. Built to ANSI/BHMA 156.13 Series 1000 Grade 1
- 4.1.7. Compliance:
- a. Complies with Americans with Disabilities Act

5. LATCH M2 SERIES

The Latch M2 has an industry standard mortise cartridge at its core, designed to meet and exceed every project requirement. It is built to the highest commercial standards, compliant with your code requirements and applicable for interior or exterior use.



5.1 Latch M2, General Specifications

5.1.1. Mechanical Lock Body

- a. Mechanical: Mortise deadbolt
- b. Handing: Field reversible
- c. Door Thickness Compatibility: 1 3/4"
- d. Backset Compatibility: 2 3/4"
- e. Lever Style Options: Standard and return
- f. Latchbolt Throw: 3/4"
- g. Deadbolt Throw: 1"
- h. Strike Plate: 1 1/4" x 4 7/8, 1 1/4" lip
- i. Cylinder: Schlage Type C keyway

5.1.2. Finish: Silver, Gold, Black

5.1.3. Environmental:

- a. Operating Temperature:
 - 1. Exterior: -22°F to 158°F (-30°C to 70°C)
 - 2. Interior: -4°F to 129.2°F (-20°C to 54°C)
 - 3. Operating Humidity: 0-95% relative humidity, non-condensing

5.1.4. Technology Elements:

- a. Power:
 - 1. Battery Power Supply: 6 AA non-rechargeable alkaline batteries
 - 2. Battery Life: 24 months with normal usage
 - 3. Battery Status: Monitoring and notifications in Latch software suite
- b. Wireless Standards:
 - 1. Near Field Communication (NFC)
 - 2. Bluetooth Low Energy (BLE)
 - 3. NFC Frequency: 13.56 MHz
 - 4. NFC Read Range: Up to 1.18"
 - 5. NFC Type: MIFARE Classic
- c. Credentials Types: Smartphone, NFC Card, Doorcode, Mechanical Key
- d. Supported Smartphones: iOS and Android (see website for full supported smartphone list)
- e. Users: 1500
- f. Management: App and Cloud
- g. Visual Communications: 7 white LEDs

- h. Interface: Mobile apps, touchpad, NFC, and web
- 5.1.5. Warranty:
 - a. 2-year limited warranty on electronic components
 - b. 5-year limited warranty on mechanical components
- 5.1.6. Certifications:
 - a. UL 10B (90min)
 - b. UL 10C (90min)
 - c. CAN/ULC S104
 - d. FCC Part 15
 - e. IC RSS
 - f. FL TAS 201-94, 202-94, 203-94
 - g. Built to ANSI/BHMA 156.13 Grade 1
- 5.1.7. Compliance:
 - a. Complies with Americans with Disabilities Act

[Latch M2 Installation Guide](#)

[Latch M2 Cut Sheets](#)

6. LATCH C SERIES (PHASING OUT)

The Latch C is a cylindrical deadbolt that can easily retrofit into an existing building or added to the scope of a new project. Like the M Series, it doesn't require network connectivity and is rated to meet the most stringent building codes.



6.1 Latch C, General Specifications

6.1.1. Mechanical Lock Body

- a. Mechanical Chassis: Deadbolt
- b. Handing: Field reversible
- c. Door Thickness Compatibility: 1 $\frac{3}{4}$ " and 1 $\frac{3}{8}$ "
- d. Backset Compatibility: 2 $\frac{3}{4}$ " and 2 $\frac{3}{8}$ "
- e. Lever Style: Standard, return
- f. Lever Mechanical Dimensions: 5.9" X 2.4" X 2.8"
- g. Door Preparation: 5 $\frac{1}{2}$ " Center to Center
- h. Lever Set Substitution: Permitted
- i. Deadbolt Throw: 1"
- j. Faceplate Options: 1" x 2 $\frac{1}{4}$ " round corner, 1" x 2 $\frac{1}{4}$ " square corner, drive-in
- k. Strike Plate: 1 $\frac{1}{8}$ " x 2 $\frac{3}{4}$ " security strike
- l. Cylinder: Schlage Type C keyway

6.1.2. Finish: Silver, Black

6.1.3. Environmental:

- a. Exterior: -22°F to 158°F (-30°C to 70°C)
- b. Interior: -4°F to 129.2°F (-20°C to 54°C)
- c. Operating Humidity: 0-95% relative humidity, non-condensing

6.1.4. Technology Elements:

- a. Power:
 - 1. Power Supply: 6 AA non-rechargeable alkaline batteries
 - 2. Battery Life: 12 months with normal usage
 - 3. Battery Status: Monitoring and notifications in Latch software suite

6.1.5. Wireless Standards:

- a. Near Field Communication (NFC)
- b. Bluetooth Low Energy (BLE)
- c. NFC Frequency: 13.56 MHz
- d. NFC Read Range: Up to 0.75"
- e. NFC Type: MiFare Classic

- 6.1.6. Credentials Types:
 - a. Smartphone
 - b. Keycard
 - c. Doorcode
 - d. Mechanical Key
- 6.1.7. Supported Smartphones: iOS and Android (see website for full approved smartphone list)
- 6.1.8. Users: 1500
- 6.1.9. Camera: 135° image capture
- 6.1.10. Management: App and Cloud
- 6.1.11. Visual Communications: 7 white LEDs
- 6.1.12. Interface: Mobile apps, touchpad, NFC and web
- 6.1.13. Warranty:
 - a. 1-year limited warranty on electronic components
 - b. 5-year limited warranty on mechanical components
- 6.1.14. Certifications:
 - a. UL 10B (90min)
 - b. UL 10C (90min)
 - c. ULC S104
 - d. FCC Part 15 Subpart C
 - e. IC RSS-310
 - f. IEC 61000-4-2
 - g. FL TAS 201-94, 202-94, 203-94
 - h. Built to ANSI/BHMA 156.36 Grade 1
- 6.1.15. Compliance:
 - a. Complies with Americans with Disabilities Act

[Latch C Installation Guide](#)

[Latch C Cut Sheets](#)

7. LATCH C2 DEADBOLT

To bring LatchOS to even more spaces, we designed the Latch C2 to make retrofits and ongoing operations easier for every project. As a gateway to our broader ecosystem, the C2 delivers enhanced efficiency and added benefits to more properties through our full-building operating system.



7.1 Latch C2 Deadbolt, General Specifications

7.1.1. Mechanical Specifications:

- a. Lock format: Patent-pending turn mechanism deadbolt
- b. Handing: Field reversible
- c. Door Thickness Compatibility: 1 3/4" and 1 3/8"
- d. Backset Compatibility: 2 3/4" and 2 3/8"
- e. Door Preparation: 5 1/2" Center to Center with a 1" crossbore
- f. Deadbolt Throw: 1"
- g. Faceplate Options: 1" x 2 1/4" round corner, drive-in
- h. Strike Plate: 1 1/8" x 2 3/4" rounded corner security strike

7.1.2. Finishes:

- a. Latch Black Exterior, Latch Black Interior
- b. Latch Black Exterior, Latch White Interior
- c. Satin Chrome Exterior, Latch White Interior
- d. Latch White Exterior, Latch White Interior

7.1.3. Environmental:

- a. Exterior: -22°F to +158°F (-30°C to +70°C)
- b. Interior: -4°F to +129.2°F (-20°C to +54°C)
- c. Operating Humidity: 0-95% relative humidity, non-condensing

7.1.4. Power:

- a. Power Supply: 6 AA non-rechargeable alkaline batteries
- b. Battery Status: Passive monitoring and active notifications via Latch OS
- c. Inductive Jumpstart: Qi-compatible power source can wirelessly power a Bluetooth unlock in the event of battery failure

7.1.5. Communication:

- a. Near Field Communication (NFC)
- b. Bluetooth Low Energy 5.0 (BLE)
- c. NFC Frequency: 13.56 MHz
- d. NFC Type: DESFire Light
- e. Supported devices: iOS, Watch OS, and Android (see website for full list of supported devices)

- 7.1.6. Credentials Types:
 - a. Smartphone
 - b. NFC Keycard
 - c. Doorcode
- 7.1.7. Users: 1500
- 7.1.8. Management: App and Cloud
- 7.1.9. Warranty:
 - a. 2-year limited warranty on electronic components
 - b. 5-year limited warranty on mechanical components
- 7.1.10. Certifications:
 - a. UL 10B (90min)
 - b. UL 10C (90min)
 - c. CAN/ULC S104 (90min)
 - d. FCC Part 15
 - e. IC RSS
 - f. FL TAS 201-94, 202-94, 203-94
 - g. ANSI/BHMA 156.36 Grade 2 Certified
- 7.1.11. Compliance:
 - a. Complies with Americans with Disabilities Act

[Latch C2 Installation Guide](#)

[Latch C2 Cut Sheets](#)

8. LATCH HUB

The Latch Hub is an all-in-one connectivity solution that enables smart access, smart home, and sensor devices to do more at every building.



8.1 Latch Hub, General Specifications

8.1.1. Mechanical

- a. Dimensions: 8" X 8" X 2.25"
- b. Mounting: Single gang box, wall, and ceiling mount
- c. Materials: Glass fiber reinforced mounting plate

8.1.2. Environmental:

- a. Operating Temperature: +32°F to +104°F (0°C to +40°C),
Indoor Use Only
- b. Operating Humidity: 10% to 90% relative humidity,
non-condensing

8.1.3. Power Supply:

8.1.3.1. Local DC Power Adapter (sold separately):

- a. Input Voltage: 90 - 264 VAC
- b. Input Frequency: 47 - 63 Hz
- c. Output Voltage: 12 VDC +/- 5%
- d. Max Load: 2 AMPs
- e. Min Load: 0 AMPs
- f. Load Regulation: +/- 5%

8.1.3.2. External Power Supply:

- a. Class 2 Isolated, UL Listed Power Supply
- b. Wire Supply Voltage: 12VDC, 2A
(2.5mm pigtail connector is required)
- c. Power over Ethernet (using PoE splitter only): 802.3bt (30W+)
- d. Operating Power: 20W-50W (Max: 4A @12VDC,
Min: 1.75A @ 12VDC)

8.1.4. Communication:

- a. Ethernet: 1 Gigabit WAN Port (10/100/1000 Mbps)
- b. WiFi: 2.4/5 GHz (Selectable), 802.11a/b/g/n/ac
- c. Cellular: 4G LTE Cat 1
- d. Bluetooth: BLE 4.2
- e. IP Address: DHCP
- f. ZigBee: 3.0

8.1.5. Certifications:

8.1.5.1. US:

- a. FCC Part 15B / 15C / 15E / 22H / 24E
- b. UL 62368
- c. CEC/DOE
- d. PTCRB
- e. IEC62133 (Battery)

8.1.5.2. Canada:

- a. IC RSS-210 / 139 / 133 / 132 / 130 / 102 (MPE)
- b. ICES-003
- c. NRCAN

[Latch Hub Installation Guide](#)

[Latch Hub Spec Sheet](#)

9. LATCH WATER SENSOR

The Latch Water Sensor is a device that provides peace of mind that, when leaks arise, residents and property managers will be notified so that problems can be addressed quickly. The Latch Water Sensor requires a Latch Hub and should be placed in any leak-prone areas.



9.1 Latch Water Sensor, General Specifications

- 9.1.1. Mechanical
 - a. Mechanical Dimensions: 1.89" X 1.89" X 0.8"
 - b. Mounting: Surface mount, using provided adhesive strip
 - c. Material: ABS Material CHIMEI PA-757
- 9.1.2. Environmental:
 - a. Operating Temperature: +32°F to +122°F (0°C to +50°C)
 - b. Operating Humidity: 10% to 80% relative humidity, non-condensing.
 - c. Storage Temperature: +4°F to +140°F (-20°C to +60°C)
 - d. Storage Humidity: -20% - 60% RH (non-condensing)
- 9.1.3. Power Supply:
 - a. Power: 3VDC, 1xCR2 battery
 - b. Battery Life: 5 years
- 9.1.4. Temperature Sensor Accuracy: ±1°C
- 9.1.5. Communication: ZigBee HA 1.2.1
- 9.1.6. Radio Frequency: 2.4GHz
- 9.1.7. RF Communication Range: Open Air: 350m (Max.)
- 9.1.8. Certifications:
 - a. FCC
 - b. IC
 - c. CE
 - d. ZigBee HA

[Latch Water Sensor Installation Guide](#)

[Latch Water Sensor Spec Sheet](#)