



UniFi® Access

Model: UA-Pro / UA-Lite / UA-Hub / UA-Card

Powered by Native PoE Technology

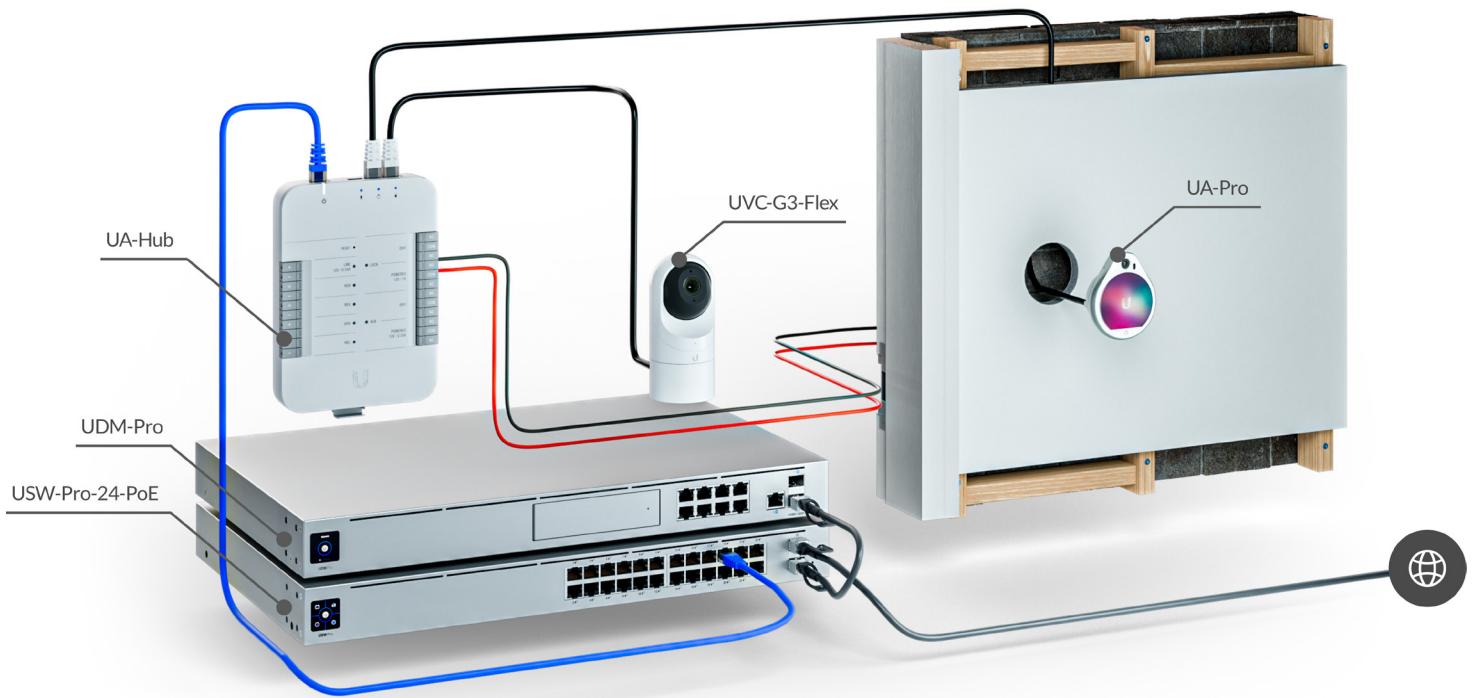
Works with Most Electric Bolts, Magnetic Locks, and Electric Strikes

Overview

UniFi® Access is a state-of-the-art access control system powered by native PoE technology. It supports conventional electric bolts/strikes, magnetic locks, and 12V access accessories such as motion sensors, push buttons, and alarms. UniFi Access requires minimal installation effort and offers the convenience of the UniFi Access Controller, which allows you to easily manage users, visitors, schedules, and access policies.



Application Diagram



| UA-Hub | |
|---------------------------|---|
| Dimensions | 190 x 126 x 33 mm (7.48 x 4.96 x 1.29") |
| Weight | 457 g (16.12 oz) |
| Enclosure Characteristics | Plastic Enclosure with Metal Mount Plate |
| Mounting Options | DIN Rail |
| Networking Interface | (4) 1 Gbps Ethernet |
| Max. Power Consumption | 40W |
| Power Method | 802.3bt PoE |
| Input Relays | REX - Request to Exit REN - Request to Enter REL - Remote Release DPS - Door Position Sensor |
| Dry Output Relay | Rated 30VDC, up to 1A |
| Lock | Rated 30VDC, up to 1A |
| Aux | Rated 30VDC, up to 1A |
| Powered Output Relay | 12VDC, up to 1A |
| Lock | 12VDC, up to 0.33A |
| Aux | 12VDC, up to 0.33A |
| Line | 12VDC, up to 0.33A |
| LEDs | (1) System, (3) PoE Out, (4) Input (2) Output Relays, (1) 12VDC Out |
| Buttons | Terminal Blocks, Reset |
| Operating Temperature | 0 to 40° C (32 to 104° F) |
| Operating Humidity | 5 - 90% Noncondensing |
| Certifications | CE, FCC, IC |

| Recommended Wiring for Typical Installation (Shielded) | |
|--|--|
| DC Power Input | Belden 8750, 18 AWG, 2 Conductor (30.5 m / 100 ft) |
| Door Position Switch | Belden 8750, 18 AWG, 2 Conductor (152.5 m / 500 ft) |
| Request to Exit | Belden 8750, 18 AWG (up to 152.5 m / 500 ft) |
| Lock Relay Output | Belden 8750, 18 AWG (up to 152.5 m / 500 ft) |
| Auxiliary Relay Output | Belden 8750, 18 AWG (up to 152.5 m / 500 ft) |



| Wiring Gauge Requirements (AWG)* | | | | |
|----------------------------------|-----------------------------|-------|-------|----|
| Total Length to Device | Output Load Current @ 12VDC | | | |
| | 100mA | 250mA | 500mA | 1A |
| 6.1 m (20 ft) | 22 | 22 | 22 | 18 |
| 15.2 m (50 ft) | 22 | 22 | 22 | 18 |
| 30.5 m (100 ft) | 22 | 22 | 18 | 18 |

* Use CTE cable connectors that comply with local electrical codes.

| Default I/O State Matrix: Lock | | | |
|---|---------|---------|---------|
| Dry | | | |
| | NO | COM | NC |
| Door Locked Initial State | Opened | Shorted | Shorted |
| Unlocked REN, REX, or REL is shorted; or the reader has granted access | Shorted | Shorted | Opened |
| Powered | | | |
| | NO | COM | NC |
| Door Locked Initial State | 0V | GND | +12V |
| Unlocked REN, REX, or REL is shorted; or the reader has granted access | +12V | GND | 0V |

| Default I/O State Matrix: Aux | | | |
|---|---------|---------|---------|
| Dry ¹ | | | |
| | NO | COM | NC |
| Door Locked Initial State | Opened | Shorted | Shorted |
| Unlocked REN, REX, or REL is shorted; or the reader has granted access | Shorted | Shorted | Opened |
| Powered ² | | | |
| | NO | COM | NC |
| Door Locked Initial State | +12V | GND | 0V |
| Unlocked REN, REX, or REL is shorted; or the reader has granted access | 0V | GND | +12V |

¹ Example 1: Recommended Setup - Connect AUX DRY to automatic door opener with external power.

² Example 2: Recommended Setup - Connect AUX POWERED to siren (12V / 0.33A / 4W) for door position warning.



| UA-Pro | |
|------------------------|---|
| Dimensions | 73.40 x 62.28 x 26.55 mm (2.89 x 2.45 x 1.05") |
| Weight | 85 g (2.99 oz) |
| Mounting Options | Wall-Mount or Alloy Clamp Holder |
| Networking Interface | 10/100 Mbps Ethernet |
| Camera Viewing Angle | 147.5° ± 3° |
| Max. Power Consumption | 8.3W |
| Power Method | 802.3af PoE |
| Button | (1) Reset |
| IP Rating | IP54 |
| LEDs | Blue, White |
| Connectivity | Ethernet, BLE 4.2 |
| Operating Temperature | -10 to 40° C (14 to 104° F) |
| Operating Humidity | 5 to 90% Noncondensing |
| Certifications | CE, FCC, IC |

| NFC | |
|------------|---|
| Frequency | 13.56 MHz |
| Read Range | <30 mm |
| Standards | ISO 14443A, 14443B, 15693 |
| Technology | NFC Tag 1, 2, 3, 4, 5 MIFARE Classic MIFARE Plus MIFARE Ultralight MIFARE DESFire EV1/EV2 |



| UA-Lite | |
|------------------------|---|
| Dimensions | 94.91 x 40.00 x 31.10 mm (3.74 x 1.57 x 1.22") |
| Weight | 65 g (2.29 oz) |
| Mounting Options | Wall-Mount |
| Networking Interface | 10/100 Mbps Ethernet |
| Max. Power Consumption | 6W |
| Power Method | 802.3af PoE |
| IP Rating | IP54 |
| Button | (1) Reset |
| LEDs | White/Blue |
| Connectivity | Ethernet, BLE 4.1 |
| Operating Temperature | -40 to 40° C (-40 to 104° F) |
| Operating Humidity | 5 to 90% Noncondensing |
| Certifications | CE, FCC, IC |

| NFC | |
|------------|---|
| Frequency | 13.56 MHz |
| Read Range | <30 mm |
| Standards | ISO 14443A, 14443B, 15693 |
| Technology | NFC Tag 1, 2, 3, 4, 5 MIFARE Classic MIFARE Plus MIFARE Ultralight MIFARE DESFire EV1/EV2 |



| UA-Card | |
|------------|--|
| Dimensions | 85.6 x 53.98 x 0.84 mm (3.37 x 2.13 x 0.033") |
| Weight | 5 g (0.18 oz) |
| Format | ISO 7810 ID-1 |

| NFC | |
|------------|--|
| Frequency | 13.56 MHz |
| Technology | ISO/IEC 14443 Type A MIFARE DESFire EV2 UniFi Access Proprietary Security Protocol |



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