RESET ●		DRY
LINE 12V / 0.33A ●	● LOCK	NO COM NC
REN ●		NO
REX ●	POWERED 12V / 1A	COM NC
DPS ●	● AUX	NO COM
REL ●	DRY	NC
	POWERED 12V / 0.33A	NO COM NC

UniFi® Access

Model: UA-Pro / UA-Lite / UA-Hub / UA-Card
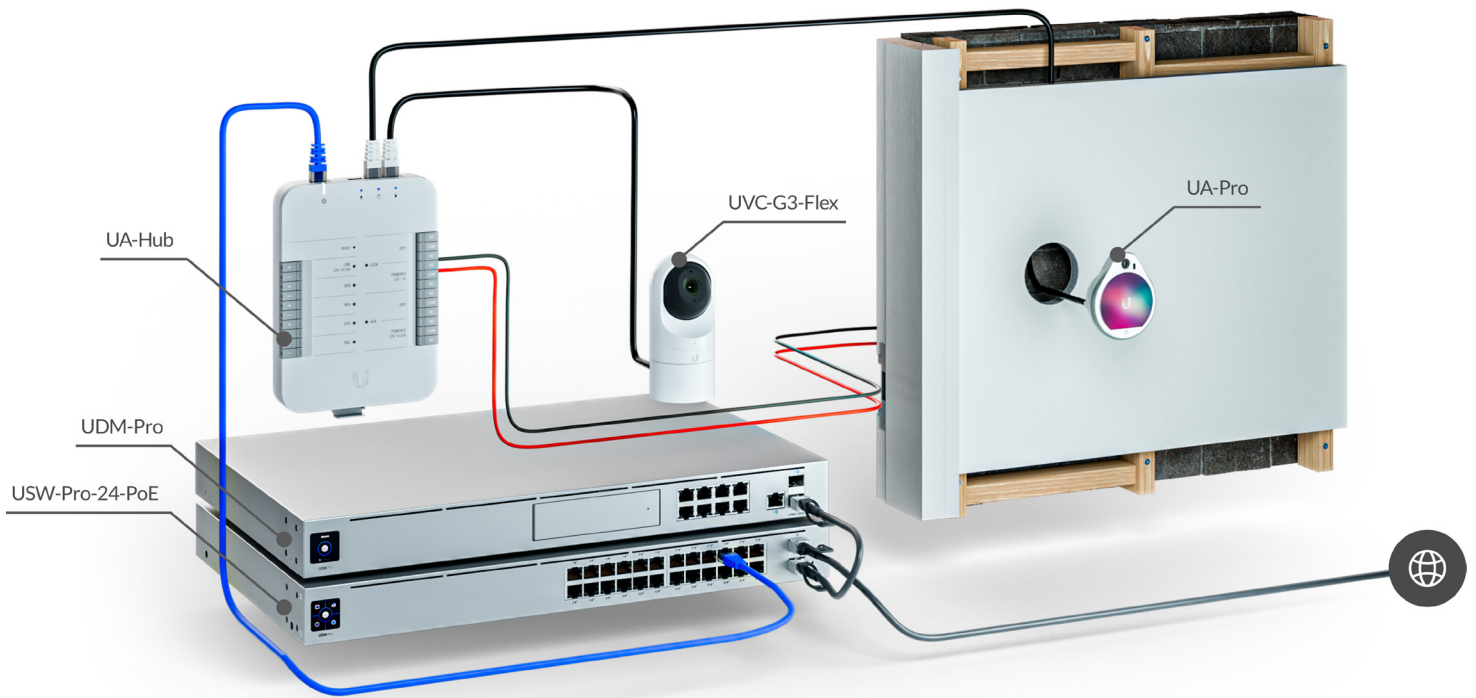
Powered by Native PoE Technology

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

UI.COM

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.
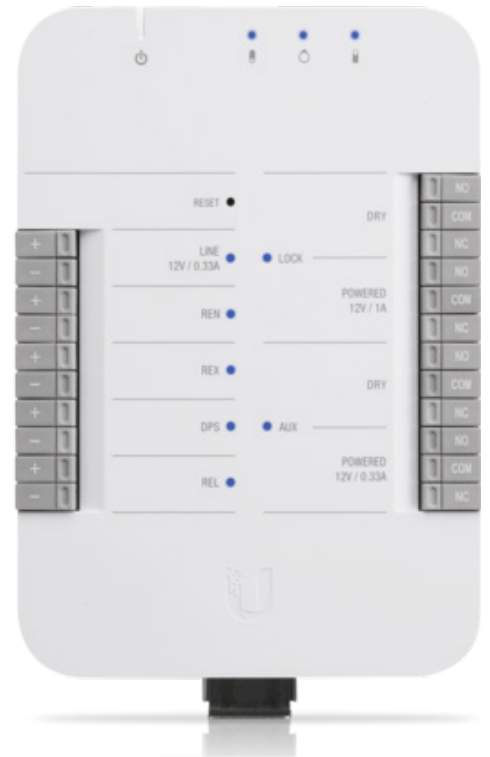
Application Diagram

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 Lock Aux	Rated 30VDC, up to 1A Rated 30VDC, up to 1A
Powered Output Relay Lock Aux Line	12VDC, up to 1A 12VDC, up to 0.33A 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