A two-piece intercom and door controller solution for secure access point communication.

The 8028 IP Doorphone provides hands-free, two-way communication via an intercom and securely stored door controller for secure door or gate entrances, access points, or call stations.

A TWO-PIECE SECURE DOOR ENTRY SOLUTION

The Algo 8028 IP Doorphone (Controller + Intercom) is a two-device solution that connect to each other via single twisted pair wiring and can be placed up to 1000 ft apart. The 8028 intercom is outdoor-rated with a stainless steel faceplate and does not require an additional network cable drop. The 8028 door control device controls all IP functionality from a secure location like a server room.

RETROFIT LEGACY INTERCOM SYSTEMS

The 8028 is the ideal solution for those looking to integrate IP capabilities into their communication system while maintaining the placement and wiring of existing legacy intercoms. As a PoE intercom, you can easily add IP features such as device tampering notifications, wideband audio, and multicast. A vandal-proof version is also available: Algo 8028V Vandal-Proof IP Doorphone (Controller + Intercom).

CONNECT TO VOIP AND UC SYSTEMS

As a SIP-compliant intercom, the 8028 can be integrated with UC platforms like Microsoft Teams, Zoom, and RingCentral as well as other VoIP technology. Configure these connections and others features such as RESTful API, ZTP, and multicast in an intuitive web interface from a remote location or on-site.

KEY FEATURES

— Two-piece solution that can be up to 1000 ft apart
— Wideband HD voice for high intelligibility speech
— Backlit tactile silicon rubber call button
— Outdoor rated with stainless steel faceplate
— Multicast capable
— SIP-compliant
— PoE, PoE+, or DC power supply
— Configuration via user friendly web interface or auto-provisioning

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POWER

POWER INPUT	PoE /PoE+ (IEEE 802.3af/at) 48 V or 24V DC power supply for non-PoE installation or Earth grounding
MAX POWER	9 W (PoE), 23 W (PoE+), 14 W (power supply)
IDLE POWER	2.5 W (PoE), 2.5 W (PoE+), 2.5 W (power supply)

SIP

SIP EXTENSIONS	One extension to initiate or answer call
SIP SIGNALLING/ TRANSPORT PROTOCOLS	UDP, TCP, RTP
SECURITY	TLS, SRTP, Mutual Authentication

CONNECTIONS & INTEGRATIONS

RTP MULTICAST	Receive 50 zones
API	RESTful API
THIRD PARTY	• Poly Group Page™ • Microsoft Teams®

CONFIGURATION & PROVISIONING

CONFIGURATION	Web interface or provisioning server
WEB INTERFACE	HTTP, HTTPS
PROVISIONING	• TFTP, FTP, HTTP, HTTPS • DHCP Options 66, 150, 160 • Reboot via SIP 'check-sync'
ZTP	Supported
SUPERVISION	Compatible with Algo Device Management Platform (ADMP), Algo 8300 IP Controller, any third-party SNMP monitoring software, and RTCP

NETWORKING

NETWORKING	IPv4, IPv6, DHCP, VLAN, MDNS
CONNECTION	RJ45 Jack
LINK LAYER	LLDP, CDP
SECURITY	IEEE 802.1X
QOS	DSCP (SIP, RTP, RTCP)
NAT	STUN, TURN, CRLF Keep Alive SIP Outbound
ADDRESS RESOLUTION	DNS, SRV Record
REDUNDANCY	Secondary and tertiary SIP server
TIME	NTP Server (up to four)

AUDIO

AUDIO CODECS	G.711 A-law, G.711 u-law, G.722 Wideband
TWO-WAY AUDIO	Yes
AUDIO MEMORY	1 GB

INPUT / OUTPUT

CONTROLLER

DOOR RELAY OUTPUT	Relay (30V 1A). Normally open, normally closed dry contact.
DOOR RELAY LOCATION	Securely located indoors at the 8028 controller.
24V OUTPUT (DOOR RELAY POWER)	• 24Vdc 500mA (PoE+) • 24Vdc 250mA with auxiliary DC power supply (optional)
INTERCOM INPUT	Connect to CTRL terminal of intercom
DOOR SENSOR INPUT	Input to Controller (eg. door contact, doorbell switch); Max 1 kOhm external resistance. Selectable normally open or normally closed input.
AUX OUT	Output from Controller. Max 50 mA 30 V

INTERCOM

CTRL	Connect to intercom input of Controller
IN	Dry contact input to intercom (eg. door contact, doorbell switch); Max 1 kOhm
OUT	Internal opto-coupler with 2 V drop from intercom (eg. gate control); Max 50 mA 30 V
BUILT-IN CALL BUTTON	Yes

ENVIRONMENTAL & MECHANICAL

ENVIRONMENTAL	**Intercom:** Outdoor rated. -40 to +122 deg F (-40 to +50 deg C) **Controller:** Indoor use only. 0 to + 40° C (32 to 104° F); 10-95% RH non-condensing
DIMENSIONS (DOOR STATION)	4.5" W x 4.5" H x 1.2" D (11.5 cm W x 11.5 cm H x 3.0 cm D)
WEIGHT (DOOR STATION)	0.5 lbs (0.2 kg)
DIMENSION (CONTROLLER)	6.75" x 4.3" x 1.18" (17.2 cm x 10.9 cm x 3.0 cm)
WEIGHT (CONTROLLER)	0.25 lbs (0.1 kg)
DIMENSIONS (SHIPPING)	12" x 9" x 3" (30.5 cm x 22.9 cm x 7.6 cm)
WEIGHT (SHIPPING)	2.5 lbs (1.1 kg)
MOUNTING	Flush or surface mount in 2-gang electrical box. The 8028 kit includes a plastic bezel for surface mounting as a convenience. Wall bracket included for control unit.
DOOR STATION ENCLOSURE	High impact UV stabilized flame retardant plastic with stainless steel
DOOR STATION WIRING	Single pair twisted wire 24 AWG up to 1000' (305m) for power, digital signaling and supervision.
WIRING	Up to 1000 Ft (300m) 24 AWG single twisted pair between the Door Station and the Controller

COMPLIANCE

RoHS, CE, FCC Class A, CISPR 32 Class A, CISPR 24, CSA/UL (USA & Canada)

FRONT

BACK

ORDERING CODES:

8028	IP Doorphone (Controller + Intercom)