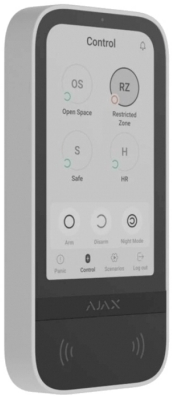
ComX Computers
Product Specification Sheet

AJAX-KP-TS-W

Ajax - White Wireless Keypad Touch Screen

Product Overview

Ajax - White Wireless Keypad Touch Screen, Up to 1700 m Radio signal range, 5" IPS 480x854 diagonal Display, Capacitive Sensor, Panic buttons, Access codes, Duress codes, Tamper alarm, 6 x AA batteries, Up to 1.5 years calculated Battery Life







Specifications

Features:

Convenient Ajax system control
KeyPad TouchScreen combines security and smart home device management. An intuitive Ajax app-like interface and multiple language options make it an easy-to-use solution. The big display, DESFire and BLE technologies, and code options ensure a secure and efficient experience.

Discover KeyPad TouchScreen Jeweller
Wireless keypad with a touch screen that supports authentication with smartphones, Pass, Tag, and codes

KeyPad TouchScreen: the ultimate security & automation control panel
Experience the perfect fusion of security control and automation devices management with KeyPad TouchScreen

Key features

- Touch IPS display with a diagonal of 5 inches
- Control via smartphone due to BLE support
- Operation with secured cards and key fobs
- Pass and Tag access devices
- Black and white themes
- 32 interface languages
- Personal access codes and duress codes
- Easy security group management
- Communication range with an Ajax hub Up to 1,700 m
- Automation control
- Sound notifications about delays, door openings, and alarms
- Wireless technologies: Jeweller and Wings
- Two power supply options
- Up to 1.5 years of operation from batteries
- 12 Vdc external power supply and batteries
- Configurable panic buttons
- Over-the-air software updates
- Informative in-app notifications

One device, three missions

- Security management
- Smart home control
- Sound and malfunction notifications

Easily manage security for multiple groups. Users can view what's armed and make changes with just one touch whether it's securing one group, multiple groups, activating night mode, or arming facility. It's all simple and straightforward.

Easy group management
Security mode of each group is available on the screen
Management of night mode and security mode of the entire system

Three authentication methods
There are three easy ways to control the keypad, giving users the flexibility to choose what suits them best. All events display in the feed, including user activity and authentication details.

Smartphone
Control the keypad via smartphone with an Ajax app. Only users approved by the admin have access rights.

Contactless access devices
The Pass card and the Tag key fob are equipped with original DESFire chips and feature the same functionality but different enclosures. You can choose the form that is convenient for you. One Tag or Pass can control 13 security systems.Access devices are sold separately in batches of 3/10/100 pieces.

Access for unregistered users
With a simple assignment of a personal access code in the hub settings, office employees, cleaning company staff, or other

individuals enter the area with convenience at its finest.

- Creating and editing codes remotely
- Notifications on adding, removing, and deactivating code
- A unique name and ID binding to identify the user
- Up to 99 keypad access codes

Full protection in case of emergency

- User notifies about the emergency alert
- System transmits the alarm
- Security company calls a rapid response unit

KeyPad TouchScreen provides a tab with configurable panic buttons that can notify about three event types. If the user is forced to disarm the system, they can use a duress code. It simulates disarming and simultaneously sends an alarm to the security company.

Tab with panic buttons to notify about alarm, fire, or auxiliary event

Screen
Big touch panel for easy system control. Keypad remains impeccable with scratch-resistant glass

Sensors
Light sensor for automatic backlight adjustment - bright during the day, not dazzling at night. Proximity sensor for automatic keypad activation when a hand approaches

Notifications
Buzzer impossible-to-ignore with different patterns to indicate an alarm, delay, or other event

Antennas
Cards and key fobs reader for authentication when using Tag or Pass. BLE reader for authentication when using smartphone

Installation
SmartBracket panel. No need to disassemble the enclosure to install the device. Channel raceway provides a secure 12 V--- cable fit

Enclosure
Tamper. Triggers when someone tries to tear off the keypad from the surface or remove it from the mounting panel. Hole for fixing the keypad with the bundled screw to mount a keypad securely

Unique touch screen operation experience
A high-resolution screen accommodates all necessary controls, ensuring a visually stunning and high-quality image. With automatic brightness adjustment and sleek glass material, the product offers aesthetics and convenience.

- 5-inch screen with a resolution of 480 x 854 px
- Bright during the day, not dazzling at night
- Screen protection against scrapes, scratches, etc.

Stable power under any conditions
Wire-free installation ensures a quick setup process for seamless operation. With Ajax apps providing low battery warnings, security will never be compromised.

- Up to 1.5 years of operation from pre-installed batteries
- Low battery warning
- Replaceable AA batteries

External power supply + batteries
Ensure uninterrupted device operation by connecting to a 12V--- power supply unit for extended autonomy. Pre-installed batteries serve as a reliable backup.

- Connection to a 12 V--- power supply unit
- Pre-installed batteries as a backup power source
- The 12 V--- power supply unit is not included in the KeyPad TouchScreen complete set.

Unique wireless technologies
KeyPad TouchScreen uses Jeweller and Wings proprietary radio protocols for reliable communication.

- Up to 1,700 m of radio communication with a hub
- Encrypted two-way radio communication
- Notifications about jamming and connection loss

Scaled and comprehensive
ReX 2 assures stable communication even through steel and concrete via Ethernet using the wire as the additional communication channel. Up to 5 range extenders can operate within one Ajax system to expand the network twice as big, covering underground parking, basement, or metal hangar.

Remote access rights management
Change access rights and codes in real time in the Ajax apps. Compromised codes can be remotely altered within minutes. The installer doesn't need to visit the object.

Tamper alarm
Users and a security company are notified when someone removes the keypad from the mounting panel. Also, the keypad is fixed with a screw from the bottom.

Protection against code guessing and use of third-party devices
KeyPad TouchScreen is locked if an incorrect code is entered more than 3 times in a row within a minute. The keypad only responds to cards, key fobs, and smartphones authorized in the Ajax app, so controlling the system through a third-party access device is impossible.

Protection against spoofing
The hub checks the device's unique parameters for authentication during each communication session. If any parameter fails the check, the hub ignores device commands.

Data encryption
All data the system stores and transmits is protected by a block cipher with a dynamic key. Encryption makes it extremely difficult to reprogram the keypad, replace or steal the data.

Data-rich notifications
The Ajax system instantly notifies about alarms and events with informative notifications: security companies and users know exactly which device was triggered, when and where it happened.

Regular polling
The device regularly exchanges data with the hub. The system controls each device state and reports if there is a malfunction or connection loss. Updating the statuses of devices depends on the Jeweller settings; the default value is 36 seconds. Regardless of polling period, tamper alarms are sent instantly.

Intuitive setup and installation
It is easy to pair KeyPad TouchScreen with a hub: all you need is to scan the QR code. No enclosure disassembly or battery installation required. PRO Desktop is available for professional monitoring.

Specifications:

Compatibility	
Control panels	Hub 2 (2G)
	Hub 2 (4G)
	Hub 2 Plus
	Hub Hybrid (2G)
	Hub Hybrid (4G)
	Differences between hubs
Range extenders	ReX 2
Communication	
Jeweller communication technology	Proprietary wireless communication technology to transmit commands, alarms, and events.
	Key features:
	Two-way communication.
	Advanced sabotage protection.
	Block encryption featuring a dynamic key.
	Instant notifications.
	Remote configuration in the Ajax apps.
Frequency bands	866.0 - 866.5 MHz
	868.0 - 868.6 MHz
	868.7 - 869.2 MHz
	905.0 - 926.5 MHz
	915.85 - 926.5 MHz
	921.0 - 922.0 MHz
	Depends on the sales region.
Maximum effective radiated power (ERP)	up to 20 mW
	Automatic power control to reduce power consumption and noise interference.
Radio signal modulation	GFSK
Radio signal range	up to 1,700 m
	Between keypad and hub (or range extender) in an open space.
	Calculate the radio signal range at the facility
Encrypted communication	All the data stored and transmitted are protected by block encryption with a dynamic key.
Frequency hopping	Radio communication uses frequency hopping to prevent interception and jamming.

Wings communication technology	Proprietary wireless communication technology for transmitting the list of the groups, rooms and detectors to form the list of malfunctions.
	Key features:
	Two-way communication.
	Block encryption featuring a dynamic key.
	Advanced sabotage protection.
	Reloading the data packages in case of transmission errors.
Frequency bands	866.0 - 866.5 MHz
	868.0 - 868.6 MHz
	868.7 - 869.2 MHz
	905.0 - 926.5 MHz
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	Depends on the sales region.
Radio signal range	up to 1,700 m
	Between keypad and hub (or range extender) in an open space.
	Calculate the radio signal range at the facility
Encrypted communication	All stored and transmitted data are protected by block encryption with a dynamic key.
Frequency hopping	Radio communication uses frequency hopping to prevent interception and jamming.
Display	
Diagonal	5"
Matrix type	IPS
Resolution	480 x 854 px
Sensor	capacitive
Brightness settings	automatic
	manual
	If Auto Adjust is enabled, the display brightness depends on the light conditions. This saves battery power.
Backlight lifetime	30,000 hours
	Guaranteed backlight lifetime when the Always Active Display toggle is enabled. It can be adjusted in Ajax apps and activates only when external power is connected.
	User interface
	Dark
	Light
Key features	

Panic buttons	panic
	fire
	auxiliary help
	Sending an alarm or calling for help from the separate keypad tab.
Control	codes
	Tag key fobs
	Pass cards
	smartphone (Bluetooth)
Contactless access	DESFire EV1, EV2
	ISO14443-? (13.56 MHz)
Access codes	up to 200 personal codes
	One code per each user. The number of personal access codes depends on the hub model.
	1 keypad code
	Per each KeyPad TouchScreen.
Duress codes	up to 200 personal codes
	One code per each user. The number of personal duress codes depends on the hub model.
	1 keypad code
	Per each KeyPad TouchScreen.
Codes for unregistered people	up to 99 personal codes
	For people who are not registered in the Ajax system. The number of such codes depends on the hub model.
Arming without entering a code	The enabled feature allows the user to arm the system without entering a code or presenting the access device.
Group management	Changing the security mode of the groups to which the user has access from the keypad's display.
Scenarios management	A separate keypad tab contains up to 6 buttons, and each one can control one automation device or a group of devices.
Indication of malfunctions and security mode	display
	logo
	sound indication
	If enabled, the logo lights up red continuously or when the system or group is armed. KeyPad TouchScreen indication is shown on the display only when it is active. Built-in buzzer notifies about alarms, door openings and entry/exit delays.
Fire alarm muting	Turns off the fire detectors alarm, including the interconnected alarm.
User pre-authorization	When the feature is enabled, viewing the current system status and control screen is unavailable. For access, the user must pre-authorize: enter a code or present a personal access device to the keypad.
Contactless authorization with a smartphone	A smartphone with the installed Ajax app and Bluetooth Low Energy (BLE) support can be used instead of Tag or Pass to authorize a user. BLE is a radio protocol with low power consumption. The keypad supports Android and iOS smartphones with BLE 4.2 and higher.

Auto screen wakeup	The keypad wakes up automatically when approaching it. The approaching distance can be adjusted in the app.
Remote firmware update	When a new firmware is available, an admin or PRO with the rights to configure the system can run the update in Ajax apps.
	The keypad must be connected to an external power supply to update the firmware.
	Recommendations
	The device is designed for indoor use only.
	Please note that the keypad must be connected to an external power supply to update the firmware and keep the screen always active.
Sabotage protection	
Unauthorized access auto-lock	The keypad locks if an incorrect code is entered or unverified access devices are used more than 3 times in a row within 1 minute. The lock time is adjusted by PRO or user with admin rights in the Ajax app.
Tamper alarm	Notifications on attempts to detach the keypad from the surface or remove it from the mounting panel.
Holding screw	To secure the keypad on SmartBracket.
Protection against spoofing	device authentication
Communication loss detection	after 36 s
	Detection time depends on the Jeweller or Jeweller/Fibra settings.
Power supply	
Batteries	6 x AA
	Pre-installed.
Calculated battery life	up to 1.5 years
	With default settings and up to 4 interactions with a keypad per day.
Keypad's operating voltage range	10.5-14 dc, up to 0.4 A
	The batteries serve as a backup when the external power supply is connected.
Keypad's nominal operating voltage	12 Vdc
Enclosure	
Dimensions	172 x 82 x 26 mm
Weight	327 g
Operating temperature range	from -10degC to +40degC
Operating humidity	up to 75%
Colours	
Colours	Black
	White
Complete set	

Complete set	KeyPad TouchScreen
	SmartBracket mounting panel
	6AA batteries (pre-installed)
	Installation kit
	Quick start guide

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx-computers.co.za/AJAX-KP-TS-W-Ajax-White-Wireless-Keypad-Touch-Screen-p-294667.php

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