JUNIPER®
SYSTEMS

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Wireless Keyboard

USER MANUAL

Allegro Wireless Keyboard User Manual

Part Number: 32431-00

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Cautions

⚠ **CAUTION:** This symbol indicates that failure to follow directions could result in serious injury, damage to equipment, or loss of information.

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1   Getting Started

The Allegro Wireless Keyboard is a Bluetooth® keyboard that securely connects to the Archer 4 Rugged Handheld™ or other 8-inch (203 mm) or smaller third-party handheld devices, creating a convenient, handheld solution for mobile computing.

1.1   Anatomy of the Allegro Wireless Keyboard

Front Features

JSPN 32387, 32388   JSPN 32385, 32386

A. Mounting bracket for third-party handheld device

B. Function keys

C. Numeric keyboard

D. Power LED

E. QWERTY keyboard

F. Battery status LEDs

G. Locking clip

H. Mounting bracket for Archer 4

I. Bluetooth LED

J. Power key

Back Features

K. Shoulder harness attachment point

L. AMPS hole pattern for connecting with other accessories

M. Hand strap attachment points

Charging Port and Attachment Points

N.   Hand strap attachment points

O.   USB-C charging port (not for data transfer)

1.1.1   Keyboard Features

The Allegro Wireless Keyboard has a numeric keypad, function keys, and a QWERTY keyboard. The keys are sealed and have backlight illumination. To access the secondary function assigned to a key, press ◆ and then press the key.

Note: The function of the F keys is set by the active application.

KEY	PRIMARY FUNCTION	SECONDARY FUNCTION
◀	Back	Battery status
⌫	Delete (backspace)	
↵	Enter (return)	
◀	Move left	Volume down
▶	Move right	Volume up
⌃	Move up	Screen brightness up
⌄	Move down	Screen brightness down
◆	Blue command	
●	Home _iOS devices_: Two key presses to switch be-tween recent apps	
■	Recent apps _Android devices only_	
⇤	Left tab (back)	
⇥	Right tab (forward)	
.	Period	Dash
✛	Action	Adjust backlight illumination
⇧	Shift	

KEY	PRIMARY FUNCTION	SECONDARY FUNCTION
	- Shift: One key press - Caps lock: Two key presses - Release Caps lock: Three key presses	
⏻	Power - Power on: Press and release. - Power off: Press and hold for 2 seconds until red LED turns off. - Pair keyboard to handheld device: Press and hold for 5 seconds until the blue LED is rapidly blinking. - Unpair the devices: Press and hold for 10 seconds until the blue LED turns off.	

1.2   Perform Initial Tasks

When you receive the Allegro Wireless Keyboard, complete the tasks outlined in this section before first use.

1.2.1   Review Documentation

The user manual is available on the Juniper Systems website at https://junipersys.com/support/allegro-wireless-keyboard/documentation. View, download, and print the documents as desired.

1.2.2   Install the Hand Strap

To install the hand strap,

1. From the back of the keyboard, use the screwdriver (included with the keyboard) to remove a black screw from the right or left side of the keyboard, depending on which side you want the hand strap.

2. Place the screw through the loop at the top of the hand strap. Insert the screw into the screw hole. Tighten the screw, securing the hand strap loop.

3. Feed the strap through the attachment point on the bottom of the keyboard, and pull the strap tight.

4. Feed the strap through the buckle on the hand strap.

1.2.3   Attach to Handheld Device

The Archer 4 and third-party handheld devices use different mounting brackets. Your keyboard has one of the brackets explained below.

Attach Archer 4

The Archer 4 mounting bracket comes installed on the keyboard.

To secure the Archer 4 in the mounting bracket,

1. Place the long edge of the Archer 4 with the USB-C port on the right side in the mounting bracket.

2. Press down and snap the other edge of the Archer 4 under the locking clip.

Attach Third-Party Device

The Allegro Wireless Keyboard uses the Quad Lock system to attach a third-party handheld device. The Quad Lock Lever Head is included with the keyboard, but you must purchase separately the Quad Lock case that fits your handheld device (available at quadlockcase.com) or the Quad Lock Universal Adaptor (available through the Juniper Systems store or quadlockcase.com).

To attach the Quad Lock Lever Head to the keyboard,

1. Remove the Quad Lock Lever Head, attachment screw, and Allen wrench from its box.
2. Use the screw and Allen wrench to attach the lever head to one of the mounting holes at the top of keyboard. Select the hole that best accommodates the size of your device.

Use this hole for phone-sized devices.

Use this hole for tablet-sized devices.

To attach the handheld device to the Quad Lock Lever Head,

1. Place the handheld device in a Quad Lock case, or attach the Quad Lock Universal Adaptor to the back of the handheld device case.
2. Press down on the blue Quad Lock lever.
3. Align and connect the adaptor on the back of the handheld device with the Quad Lock Lever Head at a 45° angle.

4. Rotate the handheld device 45° and release the blue lever, locking the handheld device into place.

1.3   Charge the Keyboard

The Allegro Wireless Keyboard has an internal, non-removable battery that lasts up to 60 hours. Before powering on the keyboard, charge the keyboard for 4–6 hours at room temperature until fully charged. The keyboard charges most efficiently at room temperature (68°F or 20°C), but it will still charge at any temperature between 41–113°F (5–45°C). The keyboard may not charge outside of this range.

⚠ **CAUTION:** Do not use the USB port if it is wet. Dry the port completely before connecting to power. Failure to do so will void the product warranty.

To charge the keyboard,

1. Plug in the USB charger and cable, and connect it to the keyboard.

   Note: Use a USB charger that is 12V, 1.5A, 18W. The charging kit available with the Allegro Wireless Keyboard meets this criteria.

The red LEDs at the bottom of the keyboard show the battery charge level. A blinking LED indicates that the keyboard is charging.

CHARGING STATE	DESCRIPTION
Fully charged	All four LEDs are solid.
76–100%	Three LEDs are solid. One LED is blinking.
51–75%	Two LEDs are solid. One LED is blinking.
26–50%	One LED is solid. One LED is blinking.
0–25%	One LED is blinking.

1.3.1   Prepare the Keyboard for Long-Term Storage

Store the keyboard in a clean, dry room with ventilation. The ideal storage temperature is 41°–95°F (5°–35°C).

To store the keyboard for more than a month,

1. Charge/discharge the battery to 26–50%.
2. Power off the keyboard.
3. Check the keyboard battery every three months while in storage. If the battery is discharged below 26%, charge it to 26–50%.

1.4   Check the Battery Status

To check the battery status,

1. Press ◆ and then press ◀.

The LEDs at the bottom of the keyboard indicate the battery charge level.

CHARGE LEVEL	DESCRIPTION
76–100%	Four solid LEDs
51–75%	Three solid LEDs
26–50%	Two solid LEDs
0–25%	One solid LED

1.5   Power On and Off the Keyboard

The following table describes how to power on and off the Allegro Wireless Keyboard.

POWER STATE	ACTION
Power on	Press and release the Power key ⏻. The red LED flashes, indicating the keyboard is powered on.
Power off	Press and hold the Power key ⏻ for 2 seconds until the red LED turns off.

1.6   Pair the Keyboard

The Allegro Wireless Keyboard pairs to your handheld device through Bluetooth.

To pair the devices,

1. On your handheld device, make sure Bluetooth is turned on.

2. On the keyboard, press and hold the Power key ⏻ for 5 seconds until the blue LED at the top of the keyboard is rapidly blinking. The keyboard is now in discovery mode.

3. On your handheld device, select the Allegro Wireless Keyboard from the list of available Bluetooth devices. A solid blue LED indicates the pairing was successful.

1.6.1   Unpair the Devices

To unpair the keyboard and handheld device,

1. Press and hold the Power key ⏻ for 10 seconds until the blue LED turns off.

1.6.2   Bluetooth LED Indicator

The blue LED at the top of the keyboard indicates the status of the Bluetooth connection.

BLUE LED	DESCRIPTION
Solid	The keyboard is paired with a Bluetooth device.
Blinking slowly	The keyboard is unpaired.
Blinking rapidly	The keyboard is actively searching for a Bluetooth device.

1.7   Wake Devices from Sleep Mode

The Allegro Wireless Keyboard and handheld device remain paired in sleep mode.

To resume activity,

1. Press the Power key ⏻ on the keyboard.
2. Wait for the blue LED to be solid.
3. Press any key on the keyboard to wake the handheld device.
4. If lock screen appears on the handheld device, press the Spacebar on the keyboard.

1.8   Adjust Keypad Backlight Settings

The keys on the Allegro Wireless Keyboard have four backlight illumination settings: high (default), medium, low, and off.

To change the keypad backlight setting,

1. Press ◆ and then press 🔆.
2. Press the key combination again to cycle to the next backlight setting.

1.9   Set Command Key for iOS Devices

If you are using an iOS handheld device, you can set up the Ctrl key on the Allegro Wireless Keyboard to function as the Command key.
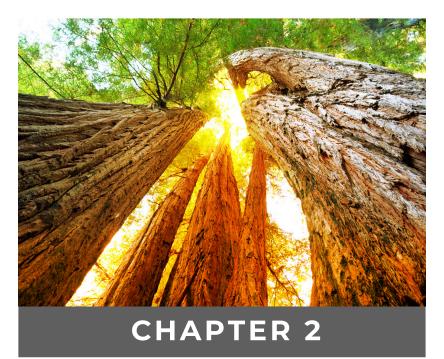
To change the function of the Ctrl key,

1. Ensure the iOS device and keyboard are paired.
2. On your iOS device, open **Settings**.
3. Select **General** > **Keyboard** > **Hardware Keyboard** > **Modifier Keys**.
   Note: Hardware Keyboard is only available if the iOS device and keyboard are paired.
4. Open the menu for Control Key and select **Command**.

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2   Product Warnings

2.1   Care and Maintenance Warnings

Apply warm water or a mild cleaning solution to a microfiber cloth and gently wipe the keyboard. Dry it with a microfiber cloth.

Do not direct a high-pressure stream of water at the Allegro Wireless Keyboard to clean it. This action can break the seal, causing water to get inside the keyboard and voiding the warranty.

Do not use abrasive pads, soft bristle brushes, or harsh cleaning solutions on the keyboard.

Exposure to some cleaning solutions may damage your keyboard, including automotive brake cleaner, isopropyl alcohol, carburetor cleaner, and similar solutions. If you are uncertain about the strength or effect of a cleaner, apply a small amount to a less visible location as a test. If any visual change becomes apparent, promptly rinse and wash with a known mild cleaning solution or with water.

Do not attempt to repair the Allegro Wireless Keyboard yourself. This action voids the product warranty.

2.2   Battery Warnings

The Allegro Wireless Keyboard battery has an internal, non-removable battery. Battery replacement is only possible at a certified repair center.

Opening the battery compartment voids the product warranty.

Charge the battery only within the temperature range of 41–113°F (5–45°C).
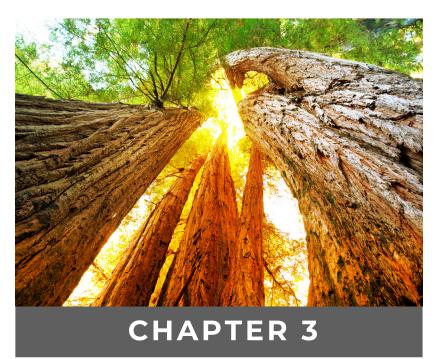
2.3   USB-C Cable and Wall Charger Warnings

To reduce the risk of personal injury, electrical shock, fire, or damage to the equipment:

- Plug the USB-C cable and wall charger into an electrical outlet that is easily accessible at all times.

- Do not place anything on the USB-C cable or wall charger.
- Do not pull on the USB-C cable. When unplugging the USB-C cable and wall charger from the electrical outlet, pull on the charger (not the cable).
- Use a USB charger that is 12V, 1.5A, 18W. The charging kit available with the keyboard meets these criteria.
- Do not use the USB port if it is wet. Dry the port completely before connecting to power. Failure to do so will void the product warranty.

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CHAPTER 3

3 Certifications and Declarations

3.1 United States

In compliance with the FCC rules 47 CFR 15.19(a)(3), the statements that follow must appear on the device or in the user documentation.

This device complies with Part 15 of the FCC Rules. Operation of this equipment is subject to the following two conditions:

- The device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

In compliance with the FCC rules, 47 CFR 15.105(b), the user must be notified that this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

In compliance with the FCC rules, 47 CFR 15.21, the user must be notified that changes or modifications to the Allegro Wireless Keyboard that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Only approved accessories may be used with this equipment. In general, all cables must be high quality, shielded, correctly terminated, and normally restricted to two meters in length. USB charger and cables approved for this product employ special provisions to avoid radio interference and should not be altered or substituted.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

3.2   Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cet appareil est conforme à la norme RSS-310 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible.

Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.

La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

3.3   European Union

CE Marking

$C\epsilon$

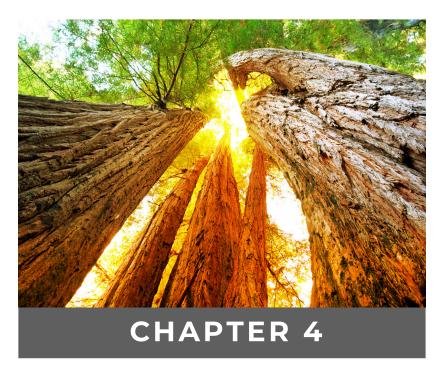Products bearing the CE marking comply with EU Directive 2014/53/EU.

Declaration of Conformity

The Declaration of Conformity for CE Marking is available at: http://www.junipersys.com/doc.

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CHAPTER 4

4　Warranty and Repair Information

4.1　Limited Product Warranty

4.1.1　Two-Year Warranty

Juniper Systems, Inc. ("Juniper") warrants that the Allegro Wireless Keyboard shall be free from defects in materials and workmanship, under normal intended use, for a period of 24 months from date of purchase, excepting that this warranty shall not apply to accessories.

4.1.2　Ninety-Day Warranty

Juniper warrants the following shall be free from defects in materials and workmanship, under normal intended use, for a period of ninety (90) days from the date of shipment:

- User documentation
- Accessories

4.1.3　Warranty Exclusions

This warranty shall not apply if:

I.　the product has been set up improperly or has been improperly installed or calibrated,

II.　the product is operated in a manner that is not in accordance with the user documentation,

III.　the product is used for a purpose other than for which it was designed,

IV.　the product has been used in environmental conditions outside of those specified for the product,

V.　the product has been subject to any modification, alteration, or change by or on behalf of customer (except and unless modified, changed or altered by Juniper or under direct supervision of Juniper),

VI.　the defect or malfunction results from misuse or accident,

VII.　the product has been opened or tampered with in any way (such as the tamper evident VOID label indi-

cating certified IP [Ingress Protection] seal area has been tampered with or removed).

Parts that are excessively worn are not covered under warranty. These may include, but are not limited to, the hand strap.

The product warranty does not cover third-party handheld devices and the Quad Lock system.

This warranty is exclusive and Juniper will not assume and hereby expressly disclaims any further warranties, whether expressed or implied, including, without limitation, any warranties as to merchantability, fitness for a particular purpose, noninfringement or any warranties arising from the course of performance, dealing, or usage of trade. Juniper specifically makes no warranties as to the suitability of its products for any particular application. Juniper makes no warranties that:

- its products will meet your requirements or will work in combination with any hardware or applications software products provided by third parties,
- the operation of its products will be uninterrupted or error free, or
- all defects in the product will be corrected.

4.1.4   Remedy

In the event a defect in materials or workmanship is discovered and reported to Juniper within the specified warranty period, after evaluation by a technician at a certified repair center, Juniper will, at its option, repair the defect or replace the defective part or product. Replacement products may be new or reconditioned. Juniper warrants any replaced or repaired product for a period of ninety (90) days from the date of return shipment, or through the end of the original warranty period, whichever is longer.

4.1.5   Limitation of Liability

To the fullest extent allowed by law, obligation of Juniper shall be limited to the repair or replacement of the product. Juniper shall in no event be liable for special, incidental, consequential, indirect, special, or punitive damages of any kind, or for loss of revenue or profits, loss of business, loss of information or data, or

other financial loss arising out of or in connection with the sale, installation, maintenance, use, performance, failure, or interruption of any product. Any responsibility and/or liability of Juniper shall, in connection with a warranted product, be limited in maximum amount to the original purchase price.

4.1.6   Governing Law

This warranty is governed by the laws of Utah, U.S.A. and excludes the United Nations Convention on Contracts for the International Sale of Goods. The courts of Utah shall have exclusive personal jurisdiction in case of any disputes arising out of or in connection with this warranty.

4.1.7   Warranty Service

In order to obtain a warranty product repair, replacement, or other servicing, contact our customer service department or fill out the Repair Order Form within the applicable warranty period. The customer must prepay all shipping costs for delivery of the product to the repair center. Please visit our Repair Policies webpage for further details.

4.1.8   Warranty Repairs

Warranty information for the Allegro Wireless Keyboard is located on our website at https://junipersys.com/support/allegro-wireless-keyboard/my-product then Warranty. You can check warranty status, view warranty terms and conditions, etc.

Standard repair orders and three-day Expedite Service repair orders are valid for 30 days from the date issued. One-day Expedite Service repair orders are valid for seven days from the date issued. Wait to request a repair until you are ready to send the product.

Services and Materials Provided Under Warranty

- Analysis of problem by service technical personnel
- Labor and materials required to fix defective parts
- Functional analysis performed after repair
- Shipping costs to return unit to the customer.

Juniper strives to provide continued full repair services for our products for up to five years from the final production date of each product model. However, in some rare cases (depending on the repair need), it may not be possible to perform a repair due to an unforeseen discontinuation or lack of supplied parts from third-party vendors. Repair support for a product may continue beyond five years if obtaining replacement parts or tools remains economically feasible. Our policy is that we will do what is best and most beneficial for our customers and company.

4.2   Complete Care Service Plan

We offer service plan options that provide additional benefits through participating repair centers. Services include:

- Service plan coverage up to five years from the original product ship date.
- Up to a 50% discount on all charged repairs.
- Expedited repairs and return shipping at no additional charge.
- Replacement of worn and/or damaged parts at no additional charge.
- Complete comprehensive coverage to protect your investment even when accidents occur.
- Loaner product option when an expedited repair is not enough.
- Priority support through a personal account specialist.

For more information about our Complete Care service plans, go to our website at https://junipersys.com/support/allegro-wireless-keyboard/my-product then Warranty/Complete Care Options or Warranty/Complete Care Terms and Conditions.

4.3   Repairs, Upgrades, and Evaluations

⚠ **CAUTION:** Do not attempt to repair the Allegro Wireless Keyboard yourself. This action voids the warranty.

Information about repairs, upgrades, and evaluations is located on our website at https://junipersys.com/support/allegro-wireless-keyboard/my-product and then tap Repairs. You can locate

a repair center, submit a repair order, check repair status, view terms and conditions, get shipping instructions, and view lead times.

Before returning the keyboard, submit a repair order from our website and wait for confirmation or contact a repair center directly. Be prepared to provide the following information:

- The product serial number. Found on the back of the Allegro Wireless Keyboard.
- Name and shipping address of company/university/ agency.
- Best contact method (phone, fax, email, cell/mobile).
- Clear, highly-detailed description of the repair or upgrade.
- Credit card/purchase order number and billing address (for a repair or upgrade that is not covered by the standard warranty or an extended warranty policy).

4.4   Extended Warranties

The Allegro Wireless Keyboard can be warranted up to five years (including the standard warranty period) through the purchase of an extended warranty.
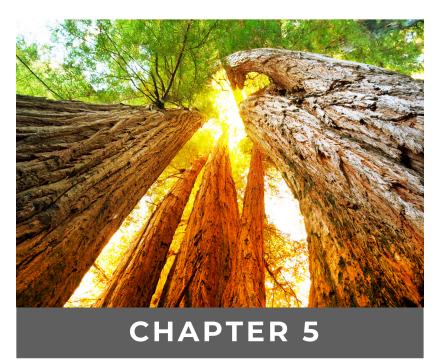
Extended warranties apply only to the Allegro Wireless Keyboard, not battery packs, user documentation, and accessories. Parts that are excessively worn are not covered under all warranty plans. These may include, but are not limited to, hand straps.

4.5   System Information

When you contact a repair center, you need some unique system ID information for your Allegro Wireless Keyboard (serial number, model number, etc.).

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CHAPTER 5

5   Allegro Wireless Keyboard Specifications

Note: Specifications are subject to change without notice.

FEATURE	SPECIFICATION
Compatibility	- Compatible with Android™, Apple™, and Windows™ devices - Balance optimized for Juniper Systems® Archer™ 4 Rugged Handheld - Mounting options for phones or tablets up to 8 inches (203 mm)
Physical Features	- Weight: 1.18–1.29 lbs (535–585 g), depending on the device mounting bracket - Dimensions: 9.98 x 1.23 x 4.76 inches (253 x 31 x 121 mm) without the mounting bracket or a paired device - Durable hardened plastic, shock-resistant design - Chemical resistance - Easy to grip ergonomic form factor - Comfortable, wide hand strap - Four mounting points on the back in AMPS pattern - Connection points for optional shoulder strap
Connectivity	- Bluetooth® 5.0 - USB type-C cable for charging only (no data transfer)
Keyboard	- Alphanumeric QWERTY keyboard - Modifier keys

FEATURE	SPECIFICATION
	- LED indicators - LED backlit keys
LED Activity Indicators	- Bluetooth status—blue LED at the top of keyboard - Power status—red LED on left side of keyboard - Battery charge level—four red LEDs at the bottom of the keyboard - 76-100%: Four solid LEDs - 51-75%: Three solid LEDs - 26-50%: Two solid LED - 0-25%: One solid LED
Battery	- 4500 mAh internal battery - Run time of up to 60 hours
Environmental Ratings and Standards	- IP68 rating - Waterproof and dustproof - Operating temperature: -4–140°F (-20–60°C)
Certifications and Standards	- IC/FCC/CE - UKCA - RCM - Bluetooth SIG - EU RoHS, REACH, POP, SCIP - California Prop 65 - Canada Prohibition - TSCA

FEATURE	SPECIFICATION
Warranties	24 months for Allegro Wireless Keyboard 90 days for accessories - Extended service and maintenance plans available
Standard Accessories	- Hand strap - Screw driver - Quick start guide - User manual (available on our website) - Archer 4 mounting bracket (included with Archer 4 configuration) - Quad Lock® Lever Head (included with Universal configuration)
Optional Accessories	- USB charger (12V, 1.5A, 18W) with international plug kit and USB-C cable - Shoulder strap - Quad Lock Original Universal Adaptor - Snap-Lock GIS/Survey Pole, 2 meter - GIS/Survey Arm and Clamp (no bracket)