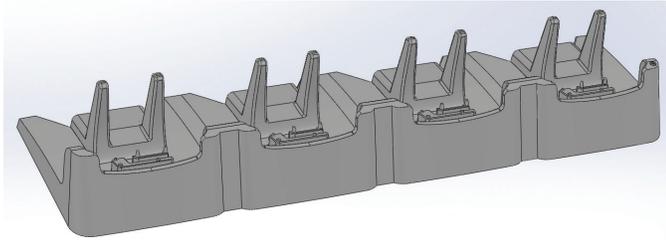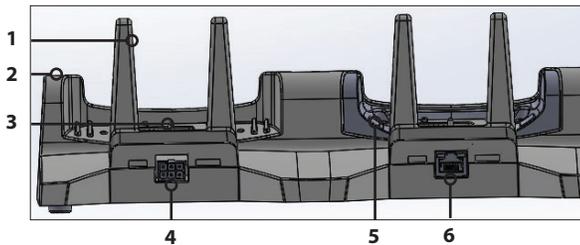# A2 Ethernet Multi Dock

The A2 Ethernet Multi Dock is a mounting station for up to four Archer 2 and/or Allegro 2 Rugged Handhelds. It provides ethernet ports for networking and a power input jack to apply power to the dock and to charge handhelds.

Ethernet Specifications

- 10/100 Mbps twisted-pair ethernet
- IEEE802.3 10Base-T / 100Base-TX
- Manages twisted pair crossover detection and correction
- Supports full-duplex and half-duplex
- Ethernet driver software pre-installed on the handheld

Dock Features

1 Handheld backrest and connector protector slot

2 LED indicator: green when the dock has power

3 Docking pins

4 Power input jack: 12VDC power input to power the Ethernet dock and the handheld(s)

5 Archer 2 insert location (use as needed)

6 Ethernet port (1 of 2): for networking using an ethernet cable and software. LED indicators:
  - Left LED lights amber to indicate that data connection is active
  - Right LED lights green when there is a 100 Mbps connection speed

Accessories

Included with the Multi Dock

- Archer 2 insert and 2 screws (4 sets)
- AC universal power adapter
- US AC power cord (adapters for international plugs are available separately from Juniper Systems or your dealer)
- RJ-45 CAT5 twisted-pair 7 foot ethernet cable

Accessories Available Separately

- Docking I/O modules for the handhelds if they are not factory installed (available from Juniper Systems or your dealer)
- Communication software to communicate with the handheld over an ethernet network (options include custom software or programs from a third party vendor such as Soti MobiControl, *www.soti.net/mobicontrol* or AirWatch, *www.air-watch.com*)
- Three #6-32 screws to mount the dock to a surface (optional)

Using the A2 Ethernet Multi Dock

1. The ethernet dock is a freestanding desktop base. It can also be mounted to a horizontal surface like a desk or shelf. To mount the dock, drill three holes in a horizontal line 10 7/8" (27.65 cm) apart up through the mounting surface. Screw #6-32 screws up into the threaded holes in the dock's bottom base plate.
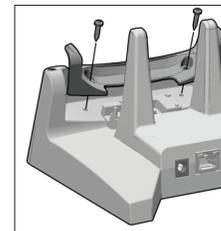
   Note: The screws should not penetrate the dock more than 1/4".

2. Handhelds must have a docking I/O module. The lower right side of the module has docking pin contacts as shown below:
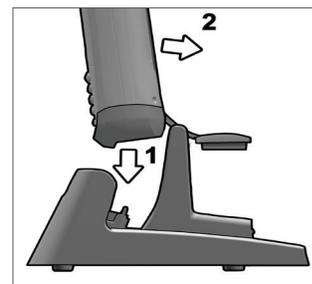

   If you have a standard I/O module, replace it with a docking I/O module. Follow the instructions included with the kit.

3. To use an Archer 2 with the dock, install the insert as shown below. This step is not required for the Allegro 2.

4. Attach the AC power cord to the power adapter. Plug the power cord into an AC power supply and the power adapter into the power input jack on the dock. This provides power to the dock and charges handhelds. The green LED turns on when power is applied.

5. If a handheld has a connector protector, open it to reveal the connector ports. Pull it back as shown below.

6. To insert a handheld, hold it so the connector ports are at the bottom and the keypad is facing forward. Insert the handheld into the dock as shown below so it is firmly seated. The handheld automatically turns on.

7. When you insert a handheld into the dock, a red LED on the handheld is illuminated, indicating that it is properly docked and ready to communicate over the network.

8. For networking, use an ethernet cable to connect the dock to an ethernet switch or to an internal network.

9. Use communication software to communicate with the handhelds over an ethernet network. Follow the instructions included with the software.

10. Handhelds can be used when they are in the dock. The keys and display are accessible.

Connecting Docks Together

You can daisy-chain multiple and/or single docks together using the ethernet ports and ethernet cables. For the network installation, consult your network administrator for best practices. Designs should avoid long chains of more than five docks or switches in series (including the upstream network switches).

Maintenance and Environmental Issues

The ethernet dock is intended for indoor use only. Temperatures should be between 0°C to 50°C. Avoid using the dock in situations where water can enter the connector ports. It is not sealed against water and must be kept dry, although it sheds moisture that is on handhelds when placed into the dock.

Do not touch the docking pins (spring loaded contacts) with conductive items when power is applied to the dock.

Do not drop items on the dock that can damage the pins.

Keep debris off of the docking pins and the connectors to maintain the best performance.

Battery Warnings

WARNING! These warnings are for the lithium ion rechargeable batteries in the handheld:

To reduce the risk of fire or burns, do not disassemble, crush, puncture, short external contacts, or expose to fire.

Do not disassemble or open, crush, bend or deform, puncture, or shred.

Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.

Only use the battery for the system for which it is specified

Only use the battery with a charging system that has been qualified with the system per this standard.

Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.

Replace the battery only with another battery that has been qualified with the system.

Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.

Promptly dispose of used batteries in accordance with local regulations.

Battery usage by children should be supervised.

Avoid dropping the battery. If the battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.

Improper battery use may result in a fire, explosion or other hazard.

Wall Charger Warnings

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

Plug the charger into an electrical outlet that is easily accessible at all times.

Disconnect power from the equipment by unplugging the wall charger from the electrical outlet.

Do not place anything on the charger cord or any of the other cables. Arrange them so that no one may accidentally step on or trip over them.

Do not pull on a cord or cable. When unplugging the charger from the electrical outlet, pull on the plug, not the cord.

Use only the charger supplied with the dock. Any other external power source can damage your product and void your warranty.

Regulatory Information

United States (FCC)

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

1. The device may not cause harmful interference.

2. This device must accept any interference received, even if the interference may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Only approved accessories may be used with this equipment. In general, all cables must be high quality and correctly terminated. Chargers approved for this product employ special provisions to avoid radio interference and should not be altered or substituted.

CAUTION: Changes or modifications to the handheld or dock that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Industry Canada

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

This device complies with RSS-210 of Industry Canada. 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.

CE Marking

Products bearing the CE marking comply with the 2004/108/EC (EMC Directive) issued by the Commission of the European Community.

CE compliance of this device is valid only if powered with/by a CE-marked wall charger provided by the manufacturer. Compliance with these directives implies conformity to the following standards:

EN 55022 Electromagnetic Interference

EN 55024 Electromagnetic Immunity

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