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Product Improvements

Since continuous product improvement is a policy of Zebra Technologies Corporation, all specifications and signs are subject to change without notice.

FCC Compliance Statement

Class B digital device. Tested to comply with FCC standards for home or office use.

WARNING: Exposure to Radio Frequency radiation with certain versions of the printer used with this product. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in the printer’s User Guide. There are several radio options available with the printer used in conjunction with this product. Additional regulatory information is contained in the printer’s Users Guide in sections devoted to each radio option.

Changes or modifications to this unit not expressly approved by Zebra Technologies Corporation could void the user’s authority to operate this equipment.

Canadian Compliance Statement

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

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

“IC:” before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user’s satisfaction.

Agency Approvals and Regulatory Information

- FCC part 15 Class B
- Canadian STD ICES-003 Class B
- EN55022 Class B European Electromagnetic Radiation Standard
- EN55024 European Immunity Standard
- EN60950 Safety Standard
- NOM (Mexico)
- C-Tick (Australia)
- VCCI (Japan)
- PCT (Russia)
- BSMI (Taiwan)
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Document Conventions

The following conventions are used throughout this document to convey certain information:

- **Caution** • Warns you of the potential for electrostatic discharge.
- **Caution** • Warns you of a potential electric shock situation.
- **Warning** • Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Before you work on any equipment, be aware of the hazards involved with the electrical circuitry and be familiar with standard practices for preventing accidents.
- **Caution** • Warns you of a situation where excessive heat could cause a burn
- **Caution** • Advises you that failure to take or avoid a specific action could result in physical harm to you.
- **Caution** • Advises you that failure to take or avoid a specific action could result in physical harm to the hardware.
- **Important** • Advises you of information that is essential to complete a task.
- **Note** • Indicates neutral or positive information that emphasizes or supplements important points of the main text.
Installation Safety

Caution • Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

Warning • It is very important to ensure that the correct power adaptor is connected to the cradle.

Note • Zebra Technologies Corporation is not liable for personal injury or damage to any equipment caused by the improper installation of this equipment to any power source.

Caution • This equipment should be installed in accordance with this installation guide and under the supervision of properly trained and qualified personnel.

Caution • Do not place coins, keys, paper clips, or other objects on the cradle or the 16-pin connectors.

Caution • Use only the approved power supply for the QLn-EC and QLn-EC4. Use of an alternative power supply will void the product warranty and may cause product damage.
Indicator and Parts Descriptions

QLn-EC

Figure 1: QLnEC

Descriptions

1. 16-pin docking port connector
2. Ethernet RJ-45 jack
3. DC power input jack
4. Eject printer button
5. Ethernet link indicator
6. Power indicator
Indicators and Parts Description cont.

QLn-EC4

Figure 2: QLnEC4

Descriptions

1. 16-pin docking connector
2. Ethernet jack
3. Ethernet jack 2 (used to daisy chain other Ethernet cradles)
4. Eject printer button
5. Ethernet link indicator
6. Power indicator
7. DC power jack
8. Velcro belt (used to fasten the power adapter)
Introduction

QLn-EC

The QLn-EC Cradle allows the QLn family of printers to connect to an Ethernet Network. The cradle also provides battery charging power while still maintaining all of the printer’s functionality.

The cradle has two input connections:

- A DC supply input that connects to the supplied AC power adapter.
- An RJ-45 connector for connection to the Ethernet Network.

QLn-EC4

The QLn-EC4 Quad Cradle allows the QLn family of printers to connect to an Ethernet Network. It allows a maximum of four (4) QLn-EC4 Quad cradles to be daisy chained together. The cradle also provides battery charging power while still maintaining all of the printer’s functionality.

The cradle has two (2) inputs and one output connections:

- A DC supply input that connects to the supplied AC power adaptor.
- An RJ-45 connector for connection, Ethernet Jack 1 to the Ethernet Network.
- An RJ-45 connector, Ethernet Jack 2 for daisy chaining connections to other QLn-EC4 Quad cradles.

The following instructions detail the installation and use of the cradle. Following these instructions closely will ensure safe, reliable performance of the printer when docked on the cradle. The printer runs off its own battery, which is monitored and charged by circuitry within the printer. The user should always refer to the QLn Series Users Guide for complete information on using the printer.

Required for Installation

If you need to attach the cradle (either QLn-EC or QLn-EC4) on the desktop, the below tools and parts are necessary

- An electrical drill, 1/4”(6 mm) drill bit
- Common hand tools.
- #10-32 bolts with self-locking (ESN) nuts

Note • Use of appropriate hardware to secure the cradle to the desktop or wall is the responsibility of the installer.

A wall mount kit is available for the QLn-EC4 cradle (p/n P1031365-050).
Packaging Contents

QLn-EC

- The QLn-EC Cradle
- Documentation CD (containing User Guide)
- AC Power Adapter
- Region-specific power cord

QLn-EC4

- The QLn-EC4 Cradle
- Documentation CD (containing User Guide)
- AC Power Adapter
- Region-specific power cord
- Velcro belt

Installation

The QLn-EC allows you to dock a QLn printer (4 printers for QLn-EC4). The installation of the cradle includes an AC power adapter, which provides power to run the printers and charge their batteries. An Ethernet cable (supplied by the user) is required to connect the cradle to the Ethernet Network. The cradle supports either 10mbps or 100mbps networks.

The Cradle is secured with #10-32 mounting hardware 2 place for QLn-EC, 4 places for QLn-EC4 on the desktop, if desired.

Note • Hardware used to secure the cradle on the desktop is not supplied in the installation kit.

Tasks for Installation

QLn-EC:
- Mechanically prepare and install the EC Cradle.
- Connect the power adapter to the cradle.
- Connect the Ethernet cable to the cradle and the Ethernet Network.

QLn-EC4
- Mechanically prepare and install the EC Quad Cradle.
- Fix the power adaptor underneath of the cradle.
- Connect the power adaptor to the cradle.

Note • It is important to leave a free zone around the printer to allow the loading of paper.
Cradle Preparation

Plan your installation with the above considerations in mind. Locate the printers and cradle so that the operator can easily load printing media and operate the printer’s controls.

QLn-EC

1. Select a location with flat surface with a free zone around the printer to allow for the loading of media.
2. Plug the power adapter into the rear of the cradle (Figure 1 #3).
3. Plug the Ethernet cable into the rear of the cradle (Figure 1 #2).
4. Make sure that the AC power adapter cable routing does not invite damage to the cable. To avoid unintentional contact between the wire and any sharp edges, provide the cable with proper bushings and clamping where it passes through openings.

QLn-EC4

1. Select a location with flat surface with a free zone around the printer to allow loading of media.
2. Plug the power adaptor into the DC jack at the bottom of the cradle (Figure 2 #7).
3. Fix the AC power adaptor underneath the cradle by fastens with supplied Velcro belts shown below.
4. Plug the Ethernet cable into the Ethernet Jack 1 (Figure 2 #2) at the rear of the cradle. Make sure that the AC power adapter cable routing does not invite damage to the cable. To avoid unintentional contact between the wire and any sharp edges, provide the cable with proper bushings and clamping where it passes through openings.
5. Connect up to four (4) cradles in series by using the connection at Ethernet Jack 2 (Figure 2 #3).
Using the Printer on the Cradle

Note • Each QLn-EC4 cradle requires an AC power adapter for proper operation even under daisy chain connections.

Note • To ensure proper operation, a maximum of four (4) cradles (with up to 16 printers) can be daisy chained together.

Printer Preparation

Prepare the printer for docking onto the cradle by doing the following:

It is strongly recommended as a safety precaution that the adjustable shoulder strap or hand strap be removed prior to docking the printer. This precaution will ensure the strap will not interfere with proper operation.

• Always install the battery prior to placing the printer in the cradle.
• Remove the black sticker on the bottom of the printer that covers the docking contacts. The sticker is labeled “Docking Cradle Access” and is illustrated below.

• If necessary, clean any residue from the docking contacts using the cleaning pen that comes with the printer, or a cotton swab with 70% Isopropyl alcohol.
• All QLn series printers will charge when docked on the cradle. For Ethernet connectivity, make sure the Ethernet option is installed in the printer. See the QLn Series User Guide for instructions.
Printer Installation

The QLn printer can now be placed on the Ethernet Cradle.

• Place the bottom of the printer over the two guide slot over the 16 pin connector.
• Slide the printer onto the cradle gently and press firmly until it latches in place.
• Verify the charge LED indicator on the front of the printer and power indicator LED (Figures 1 & 2 #6) on the cradle’s panel are lit.
• Turn the printer on and print a configuration label to verify that the printer is functioning properly. Refer to the QLn User’s Guide for instructions on printing a configuration label.

Printer Removal

Remove the printer from the Ethernet Cradle by doing the following:

• Press the Eject button (Figures 1 & 2 #4) on the cradle and pivot the printer out of the Cradle.
• Note the printer is turned on and will automatically reboot after disconnecting from the Ethernet Network.

Printer Access

• The media compartment and operator controls can be reached while the printer is placed on the cradle.
• If you need to take out the printer, follow the removal procedure detailed above in the Printer Installation and Removal section.
• Note that the printer will automatically reboot before connecting to the Ethernet Network.
• If using a printer that has a Bluetooth radio, that radio may be used while the printer is docked.
• The serial and USB ports on the printer can be used while the printer is docked.
• The DC input barrel jack connection on the printer can NOT be used while the printer is in the cradle.
• If using a printer with an 802.11 wireless LAN radio, the printer will automatically turn off that radio and connect to the Ethernet port if power is supplied to the cradle and the Ethernet is connected to a live network. If either DC power or a live Ethernet connection is not present, the 802.11 radio will remain active.
**Cradle Indicators**

The cradle has two (2) LED indicators on the panel. The power LED (#6 in Figures 1 & 2) is green when power is supplied to the cradle.

Charging status will be displayed on the charge LED on the front of the printer.

A fault condition could be caused by the battery’s internal temperature exceeding its specified limits (too hot or too cold) or could be caused by an internal short in the battery. Allow the battery to return to specified charging temperature range and try to recharge.

If the fault condition persists, discontinue use of the battery.

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Note: If the charge LED on the Printer is not illuminated, the printer is not seated properly in the cradle. Eject and re-dock the printer and observe if the charging LED is illuminated.

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A second green LED represents the Ethernet link status indicator (#5 in Figures 1 & 2). It will blink to indicate the data communication between the printer and the network.
**Technical Support**

**U.S. Only**

Zebra maintains a help line for questions involving installation and use of the EC Quad Cradle. Please have as much information as possible regarding your particular application ready when you call to enable the technical support personnel to help you. The number in the U.S. is (800)-423-0442 and is open Monday through Friday from 8:00 am to 4:30 P.M. E.S.T.

**All Others**

For technical support, please contact your local Zebra sales representative listed below:

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