

Elf™/Falcon™ X3 Four Slot Dock

NOTE *Read this manual carefully before performing any type of connection from the terminal to a host PC using the Four Slot Dock. The user is responsible for any damages caused by incorrect use of the equipment or by inobservance of the indication supplied in this manual.*

The Four Slot Dock paired with an Elf PDA or a Falcon X3 mobile computer builds a reading system for the collection, decoding and transmission of barcode data. The Four Slot Dock can charge both the terminals and the spare batteries at the same time. The spare batteries can be charged by inserting them into the slots at the back of the cradle. The Four Slot Dock comes in two different models, the Charger and the Ethernet:

- Elf Charger 94A151134; Elf Ethernet 94A150053
- Falcon X3 Charger 94A151135; Falcon X3 Ethernet 94A150056

The Ethernet model also provides Ethernet connection for data transfer via local area networks.



Figure 1 - Four Slot Dock

- Key:
- A) Link LED for Ethernet Port 1,2,3,4*
 - B) Battery charger LED for Slot 1,2,3,4
 - C) Power supply connector
 - D) Ethernet Port 1 (with integrated Link and Speed LEDs)**
 - E) Ethernet Port 2 (with integrated Link and Speed LEDs)**
 - F) Power on LED

MOBILE COMPUTER INSERTION/ REMOVAL

For correct insertion into the cradle, insert the mobile computer from the top of the cradle and push it down until the clip of the cradle clicks

To remove the mobile computer from the cradle, simply pull it upwards while holding the cradle firmly down.



Figure 2 - Mobile Computer Insertion

Power Supply

Each 4SD requires a power supply to be connected to mobile computers. We recommend the power supply already included in the box.

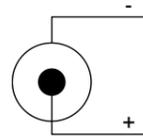


Figure 3 - Power Supply Polarity

LED INDICATORS

Power LED Status Indicator (F)

| Color | Status |
|-------|----------------|
| Green | Cradle powered |

Battery Charging LED Status Indicators (B)

| Color | Status |
|--------------|----------------------------|
| Off | Battery absent |
| Red | Battery charge in progress |
| Green | Charge completed |
| Red Blinking | Error |

USING THE SPARE BATTERY CHARGER

Correctly insert the battery pack into the slot and simply press it into the slot until the battery latch is automatically closed; charging starts automatically.



Figure 4 - Spare Battery Insertion

To remove the battery, release the latch on the battery pack.



Figure 5 - Spare Battery Removal

ETHERNET CONNECTION*

The Ethernet cradle drivers are pre-installed on the Elf and on the Falcon X3 and initiate automatically when the terminal is placed in a properly connected Four Slot Dock Ethernet.

When the mobile computer is inserted into the Four Slot Dock Ethernet, the connectivity icon on the taskbar indicates that the mobile computer is connected to a network.

NOTE *The maximum bandwidth capacity for each Mobile Computer is 12Mbps.*

The yellow Link LED blinks to indicate activity, or stays lit to indicate that a link is established. When it is not lit it indicates that there is no link.

CAUTION *Connections should always be made with power OFF!*

How to connect

Connect the Ethernet cradle (Ethernet port 1 - E) to an Ethernet hub or to a port on the host device. Connect the Ethernet cradle (power port - F) to the power supply.

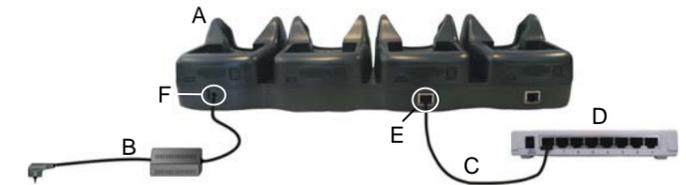


Figure 6 - Ethernet Connection

- Key:
- A) Ethernet 4 Slot Dock
 - B) Power supply without power cord, supplied with the 4SD and country specific power cord
 - C) UTP CAT 5E cable (recommended use)
 - D) Ethernet hub
 - E) Ethernet port 1
 - F) Power port

* Used in the Ethernet Four Slot Dock only
 ** Available in the Ethernet Four Slot Dock only

* Available in the Ethernet Four Slot Dock only

Daisy chaining Ethernet Connection

To connect several cradles to an Ethernet network, the Ethernet cradles may be daisy chained. It is recommended not to connect more than 4 cradles in order to maintain the optimal baud rate.

Connect the first Ethernet cradle to the Ethernet Switch. Connect the additional cradles as shown in Figure 7.

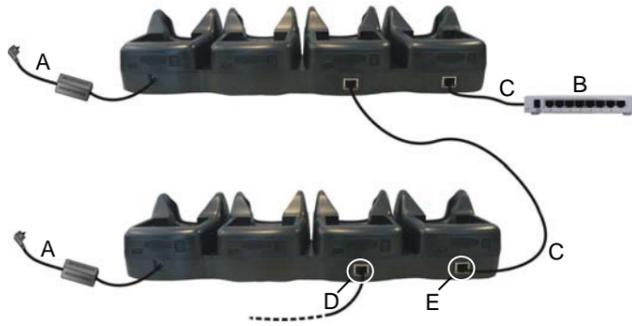
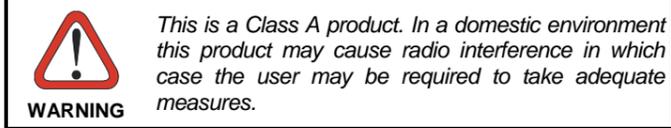


Figure 7 - Daisy chaining Ethernet Connection

Key:

- A) Power supply without power cord, supplied with the 4SD and country specific power cord
- B) Ethernet hub
- C) UTP CAT 5E cable (recommended use)
- D) Ethernet Port 1
- E) Ethernet Port 2



DOCK CONTACTS CLEANING PROCEDURE

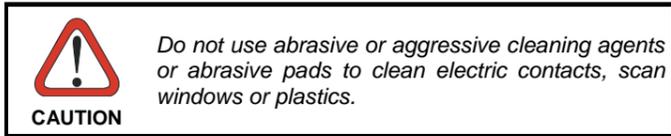
All exterior metal contacts/connectors exposed to spills, dirt or debris accumulation require periodic cleaning to ensure best performance during charging and data transmission.

Use a soft, lint-free dry cloth or lens tissue to clean the product (contacts and plastics). An antistatic cloth is preferable but you can also use a cotton cloth. Avoid wool, synthetic cloths or other materials that can cause electrostatic discharges.

If the contacts are very dirty, clean them with a soft cloth moistened with a diluted non-aggressive cleaning solution or a diluted isopropyl alcohol solution (20% maximum). A cotton swab may be used only on hard-to-reach contacts.

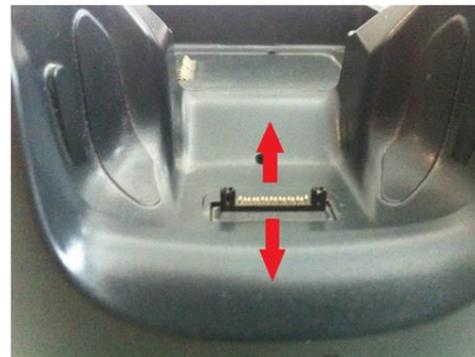
Clean the contacts when you see traces of dirt or when you experience solid connection issues between the terminal and its dock (device not charging or intermittent communications). It is however suggested to clean the contacts every 6 months (more often if the environment is dusty).

If the plastic areas are very dirty use only a cloth dampened with water.



Cleaning the Dock Contacts

1. Remove the power cable before cleaning the contacts.
2. Use a soft dry cloth as suggested above. If the product is very dirty, moisten the cloth in a non-aggressive cleaning solution or diluted isopropyl alcohol solution (20% maximum).
3. Gently rub the cloth back and forth ONLY along the contacts, following the directions indicated by the red arrows. Use care not to leave any cloth residue.



4. Use a dry cloth to remove any dirt near the contacts area and to clean the plastic parts. If the plastic parts of the equipment are very dirty, slightly dampen the cloth with only water.
5. Repeat steps 2, 3 and 4 using a clean dry cloth.
6. Allow the cleaning solution to fully evaporate before powering up the product.

Cleaning the Dock Auxiliary Battery Contacts

1. Remove the power cable and the Ethernet module before cleaning the contacts.
2. Use a soft dry cloth as suggested above. If the product is very dirty, moisten the cloth in a non-aggressive cleaning solution or diluted isopropyl alcohol solution (20% maximum).
3. Gently rub the cloth back and forth ONLY along the contacts, following the directions indicated by the red arrows. Use care not to leave any cloth residue.



4. Use a dry cloth to remove any dirt near the contacts area and to clean the plastic parts. If the plastic parts of the equipment are very dirty, slightly dampen the cloth with only water.
5. Repeat steps 2, 3 and 4 using a clean dry cloth.
6. Allow the cleaning solution to fully evaporate before powering up the product.

TECHNICAL FEATURES

| Electrical Features | |
|--------------------------------------|--|
| Power supply * | 12 VDC ± 5% @ 5A |
| Consumption | Max 5 A |
| Spare slot charge time | |
| Elf Std Battery | 4h 30 |
| Falcon X3/Elf High Cap Battery | 6h 30 (with terminal inserted) 5h (when terminal is not inserted) |
| Communication Features | |
| Interface | Ethernet ** |
| Baud Rate | 10/100BASE-T |
| Physical Features | |
| Dimensions | 445 x 135 x 105 mm 17.5 x 5.3 x 4.2 in |
| Weight (without connection cables) | 1250 g / 44.1 oz |
| Indicators | Green power-on LED Bicolored battery charge status LED |
| Environmental Features | |
| Working temperature*** | -10° to +50°C / 14° to 122°F *** |
| Storage temperature | -20° to +70°C / -4° to 158°F |
| Humidity | 95% without condensation |
| Electrostatic discharge EN 61000-4-2 | 4 KV contact / 8 KV air |

* Use only DL approved power adapters.

** Available in the Ethernet Four Slot Dock only

*** When inserted in the spare slot, standard batteries must be charged at a temperature ranging from 0° to 40 °C. When inserted in the spare slots, high capacity batteries must be charged at a temperature ranging from 0° to 35 °C. At higher values the charging may slow down.

FCC COMPLIANCE

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.

Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use the equipment.

This device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

©2010-2013 Datalogic ADC S.r.l. • ALL RIGHTS RESERVED. • Protected to the fullest extent under U.S. and international laws. • Copying, or altering of this document is prohibited without express written consent from Datalogic ADC S.r.l.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S.A. and the E.U.

Elf and the Elf logo are trademarks of Datalogic ADC S.r.l. Falcon and the Falcon logo are trademarks of Datalogic ADC S.r.l. All other brand and product names mentioned herein are for identification purposes only and may be trademarks or registered trademarks of their respective owners.