⊕DATALOGIC™

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 94A151132
− Falcon X3 Charger 94A151135; Falcon X3 Ethernet 94A151133

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

822000962 (Rev. B)

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* Used in the Ethernet Four Slot Dock only

** Available in the Ethernet Four Slot Dock only

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.

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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.
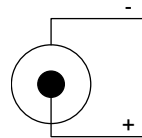

Figure 3 - Power Supply Polarity

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

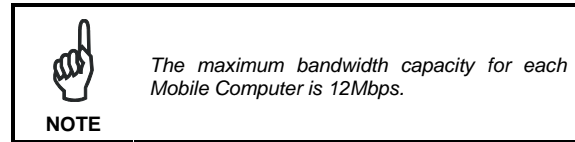To remove the battery, release the latch on the battery pack.

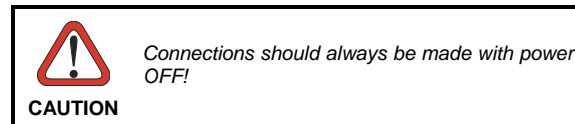
Figure 5 - Spare Battery Removal

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.
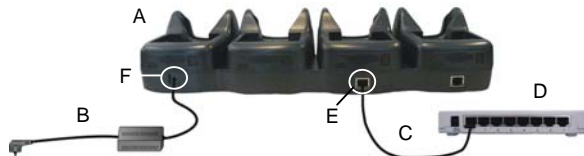

Figure 6 - Ethernet Connection

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

Daisychaining Ethernet Connection

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

To daisychain the cradles:

1. Connect the first Ethernet cradle to the power supply and to the Ethernet Switch as shown in Figure 6.
2. Connect the second Ethernet cradle to the power supply.
3. Connect the daisychain Ethernet cable (either straight or twisted cable can be used) between the Ethernet Port 2 of the first cradle and the Ethernet Port 1 of the second cradle.
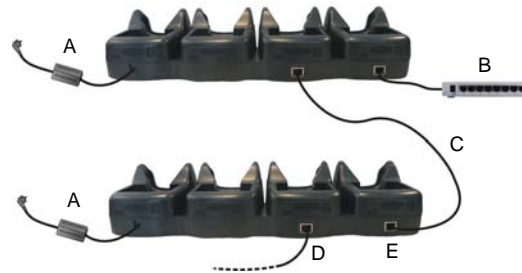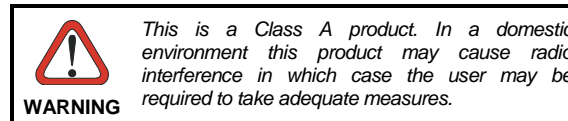4. Connect additional cradles as shown in Figure 6.

Figure 7 - Daisychaining 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

⚠️ **WARNING**	*This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.*

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.