

Owner's Manual Havis Docking Station For Dell Latitude 7230 Rugged Extreme Tablet



DS-DELL-900 Series

DS-DELL-901
DS-DELL-901-4
DS-DELL-902
DS-DELL-902-4

DS-DELL-903
DS-DELL-903-4
DS-DELL-904
DS-DELL-904-4

DS-DELL-907
DS-DELL-907-4



DS-DELL-900-SERIES-OMN_02-26

Before Beginning

Havis is pleased to provide this Owner's Manual to aid in the proper installation and use of the DS-DELL-900 Series Docking Station for the 7230 Latitude Rugged Extreme Tablet
For questions regarding the set-up of your DS-DELL-900 Series Docking Station, please contact Havis at 1-800-524-9900 or visit www.havis.com for additional product support and information.

WARNING

AVERTISSEMENT

- NEVER STOW OR MOUNT THE DOCKING STATION DIRECTLY IN A VEHICLE AIRBAG DEPLOYMENT ZONE.
- DO NOT USE THE COMPUTER WHILE DRIVING.
- DO NOT PLACE METAL OBJECTS OR CONTAINERS OF LIQUID ON TOP OF THE DOCKING STATION.
- IF A MALFUNCTION OCCURS, IMMEDIATELY UNPLUG THE POWER SUPPLY AND REMOVE THE TABLET.
- NE JAMAIS PLACER OU MONTER LA STATION D'ACCUEIL DIRECTEMENT DANS LA ZONE DE DÉPLOIEMENT DES COUSSINS GONFLABLES D'UN VÉHICULE.
- NE PAS UTILISER L'ORDINATEUR EN CONDUISANT.
- NE PLACEZ PAS D'OBJETS MÉTALLIQUES OU DE CONTENANTS DE LIQUIDE SUR LE DESSUS DE LA STATION D'ACCUEIL.
- EN CAS DE DYSFONCTIONNEMENT, DÉBRANCHEZ IMMÉDIATEMENT LE BLOC D'ALIMENTATION ET RETIREZ LA TABLETTE.

CAUTION

ATTENTION

- READ ALL INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION.
- DO NOT STORE, INSTALL, OR OPERATE THE DOCKING STATION WHERE WATER, MOISTURE, STEAM, DUST, ETC. ARE PRESENT
- FOR THE DS-DELL-904, DS-DELL-904-4, DS-DELL-907, DS-DELL-907-4, DOCKING STATIONS: DO NOT CONNECT DIRECTLY TO VEHICLE VOLTAGE SOURCE: This product requires a certified, automotive grade, Dell/Havis approved power supply with a 19.5 V power output, such as the 120N-A01-T01-1, or an appropriate isolated power supply such as the LPS-186 or LPS-187. Failure to comply with this requirement will cause product damage that is NOT repairable and is NOT covered under warranty.
- USE ONLY THE SPECIFIED POWER SUPPLY WITH THIS DOCKING STATION.
- DO NOT CONNECT CABLES INTO PORTS OTHER THAN WHAT THEY ARE SPECIFIED FOR.
- DO NOT LEAVE THE DOCKING STATION IN A HIGH TEMPERATURE ENVIRONMENT (GREATER THAN 85°C, 185°F) FOR AN EXTENDED PERIOD OF TIME.
- LISEZ ATTENTIVEMENT TOUTES LES INSTRUCTIONS AVANT DE PROCÉDER À L'INSTALLATION.
- NE PAS ENTREPOSER, INSTALLER OU UTILISER LA STATION D'ACCUEIL DANS UN ENDROIT OÙ L'EAU, L'HUMIDITE, LA VAPEUR, LA POUSSIERE, ETC. SONT PRÉSENTS.
- POUR LES STATIONS D'ACCUEIL DS-DELL-904, DS-DELL-904-4, DS-DELL-907, DS-DELL-907-4 : NE PAS CONNECTER DIRECTEMENT A LA SOURCE DE TENSION DU VEHICULE : Ce produit requiert un source de courant certifié, de qualité automobile et approuvé par Dell/Havis, pour une puissance de sortie de 19.5 V, comme le 120N-A01-T01-1, ou une alimentation isolée appropriée comme le LPS-186 ou le LPS-187. Le non-respect de ces exigences entraînera des dommages au produit qui ne seront PAS réparables et ne seront PAS couverts par la garantie.
- UTILISER UNIQUEMENT LE BLOC D'ALIMENTATION SPÉCIFIÉ AVEC CETTE STATION D'ACCUEIL
- NE PAS BRANCHER DE CÂBLES DANS D'AUTRES PORTS QUE CEUX AUXQUELS ILS SONT DESTINÉS.
- NE LAISSER PAS LA STATION D'ACCUEIL DANS UN ENVIRONNEMENT À HAUTE TEMPÉRATURE (PLUS DE 85°C, 185°F) POUR UNE PÉRIODE PROLONGÉE.

NOTICE

- FOR THE DS-DELL-901, DS-DELL-901-4, DS-DELL-902 & DS-DELL-902-4, DS-DELL-904, DS-DELL-904-4, DS-DELL-907, DS-DELL-907-4: DO NOT CONNECT THE TABLET TO MULTIPLE POWER SUPPLIES. PRIOR TO DOCKING THE TABLET INTO THE DOCKING STATION, ENSURE THAT THERE IS NO POWER CABLE ATTACHED TO THE TABLET.

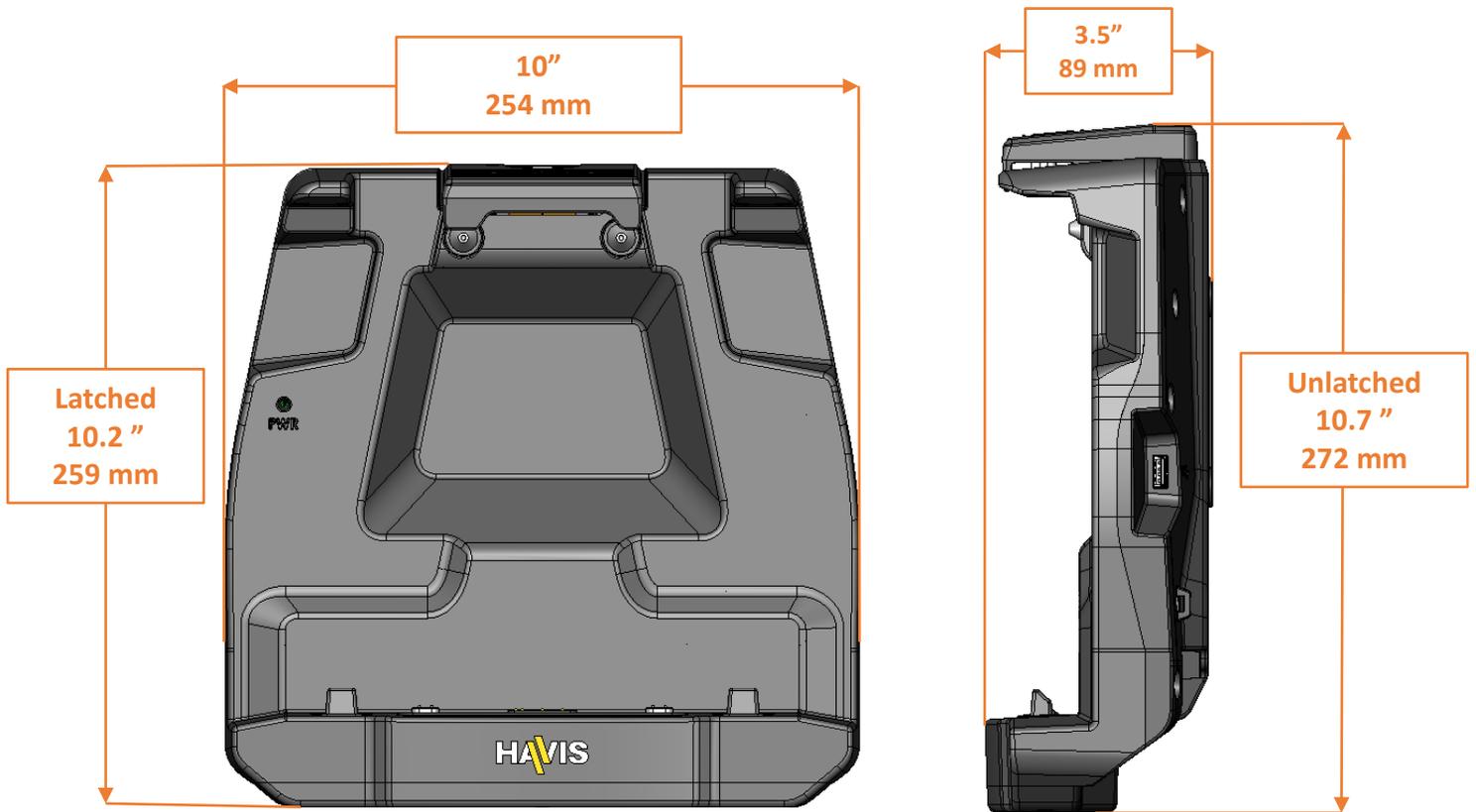
Specifications

	Configuration	Description	Power Options	Dock Input Voltage Requirement
Docking Station Information	DS-DELL-901 DS-DELL-901-4 DS-DELL-902 DS-DELL-902-4	Standard Electronics with Internal Power Supply Standard Electronics with Internal Power Supply and Quad RF Advanced Electronics with Internal Power Supply Advanced Electronics with Internal Power Supply and Quad RF	DS-DA-339 Power Cable	10-35 VDC
	DS-DELL-903 DS-DELL-903-4	No Electronics No Electronics with Quad RF	None	None
	DS-DELL-904 DS-DELL-904-4 DS-DELL-907 DS-DELL-907-4	Standard Electronics Standard Electronics with Quad RF Advanced Electronics Advanced Electronics with Quad RF	External Power Supply	19.5 (± 5%) VDC
	Dimensions	10.2" (25.9 cm) H x 10" (25.4 cm) W x 3.5" (8.89 cm) D		
Weight	2.75 lbs. (1.25 kg)			
Operating Environment	-30° C to 63° C (-22° F to 145° F)			
Storage Environment	-40° C to 85° C (-40° F to 185° F)			

Computer Set-Up and Port Specifications

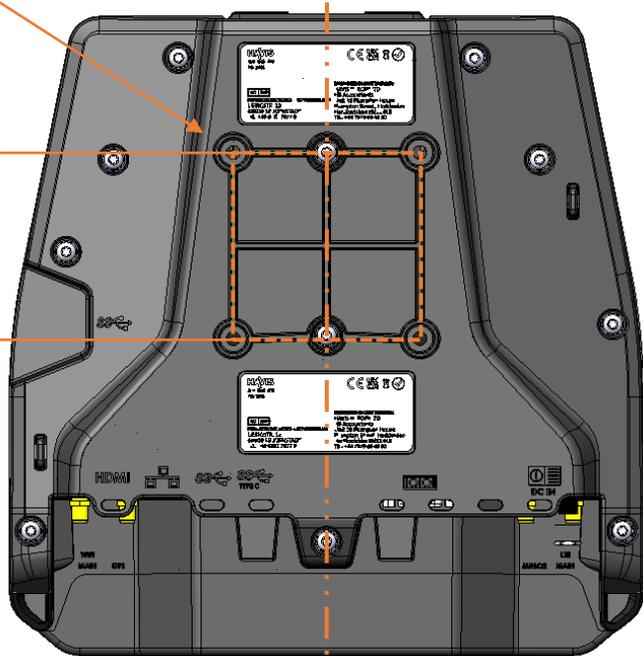
ITEM	DESCRIPTION	VENDOR	DOWNLOAD LINK	Version	Specification
1	HDMI	Synaptics	https://www.synaptics.com/products/displaylink-graphics/downloads	Ver 11.4.9842.0 for Windows (or later)	HDMI Rev 1.3a Max Resolution: 2560x1440@50Hz
2	Serial Port	MaxLinear	https://www.maxlinear.com/document/index?id=23338&languageid=1033&type=Software%3A%20Drivers&partnumber=XR21B1411	Ver 2.7.0.0 for Windows (or later)	Pin 9 (5V/1A)
3	USB C	Microchip	WIN OS PnP	-	USB 3.2 Gen 1 (5V/1.5A)
4	Rear USB (2x)	Microchip	WIN OS PnP	-	USB 3.2 Gen 1 (5V/0.9A)
5	Ethernet	Microchip	https://www.microchip.com/en-us/software-library?swsearch=LAN78xx%20Windows%20(OneCore)%20Device%20Drivers	Ver 18.12.14.0 for Windows (or later)	1 Gbps MAX

Specifications

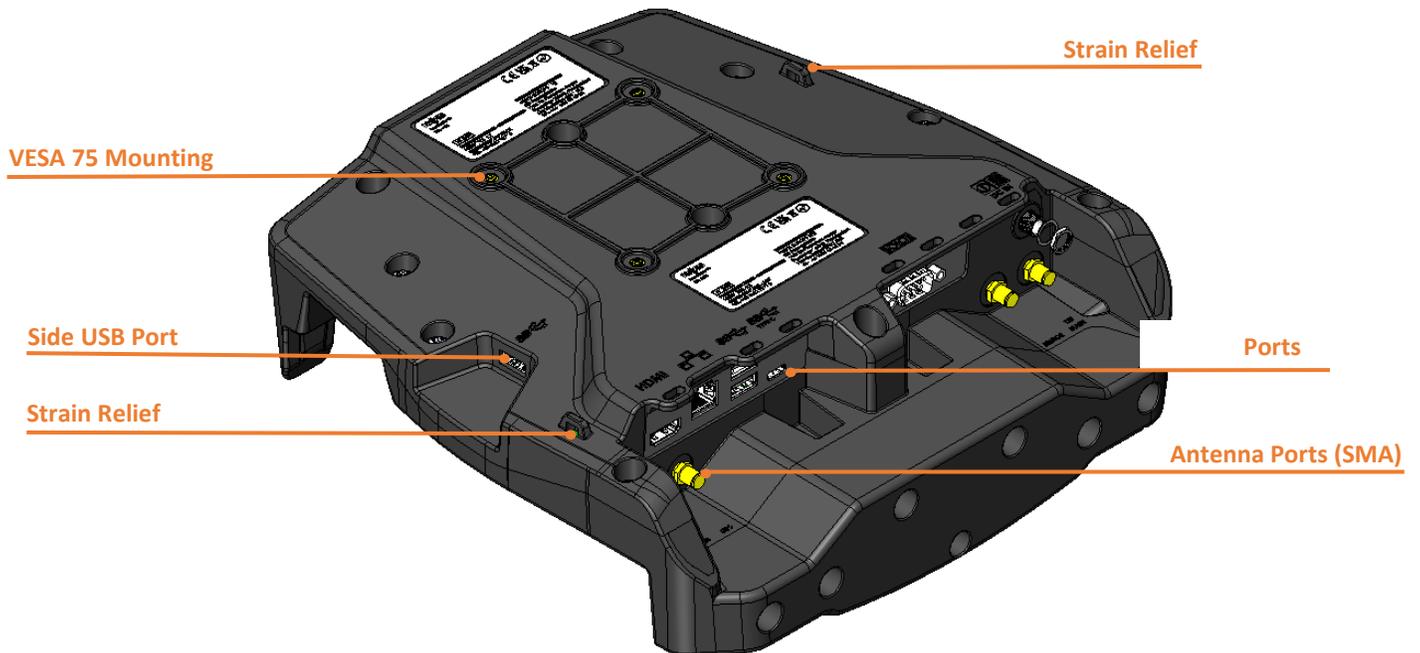
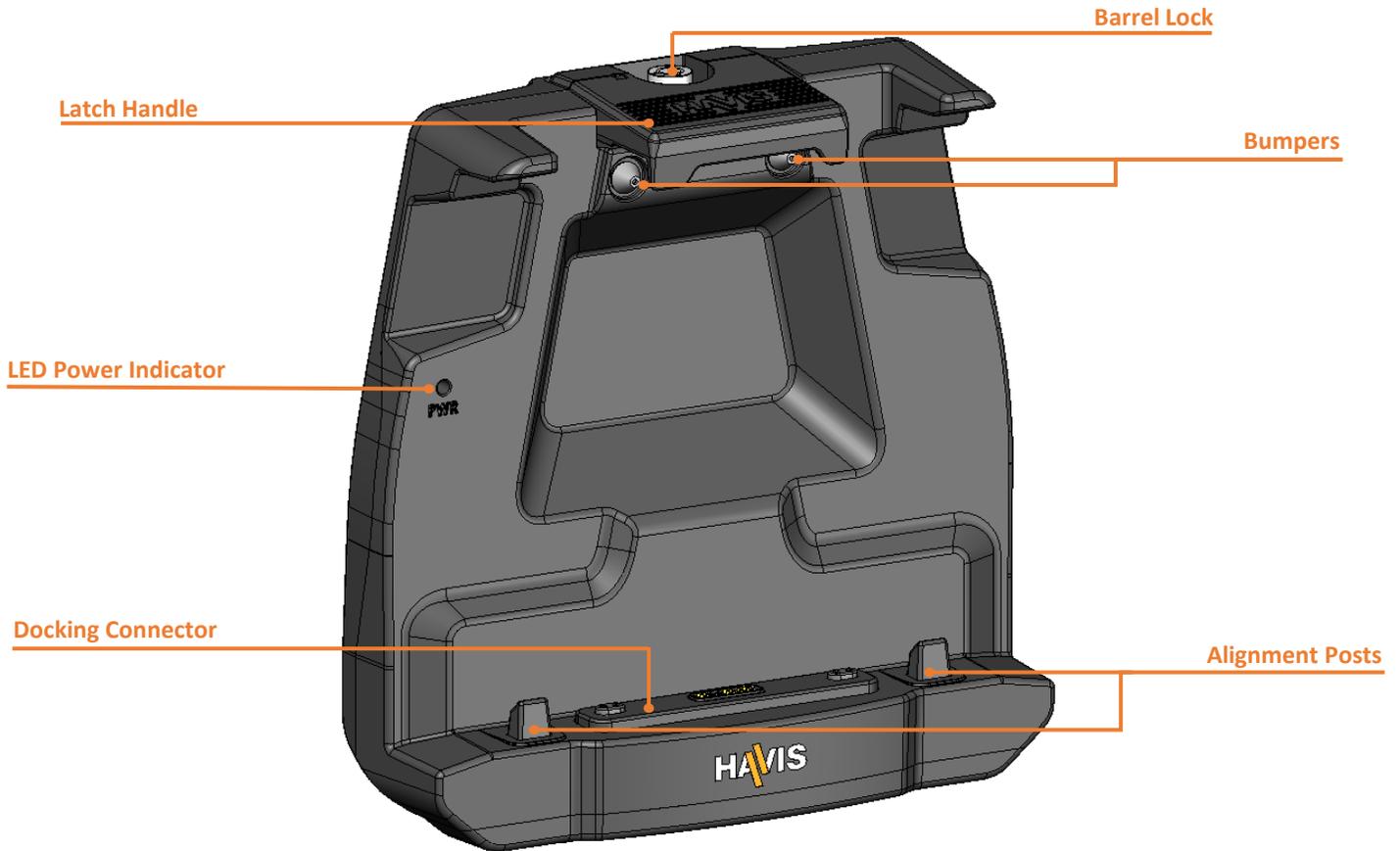


VESA 75 Mounting Pattern
M4 x 0.7 Thread

2.95" 75 mm



Specifications

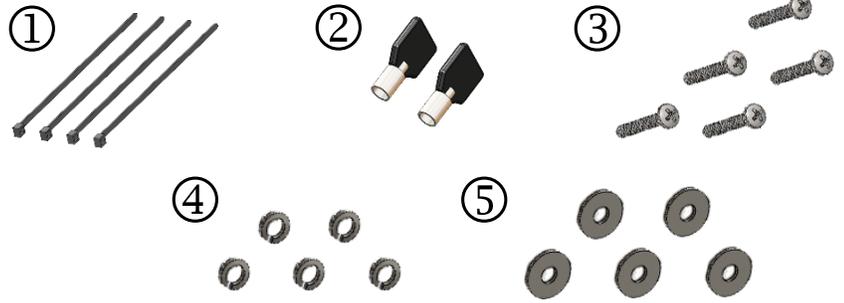


Parts Included (continued)

Hardware Kit (HWK-0031)

This Hardware Kit includes:

1. Zip Ties (4)
2. Keys (2)
3. M4 x 0.7 x 20mm long Pan Head Screws (5)
4. Split Lock Washers (5)
5. Washers, M4 (5)



Tools required for installation:

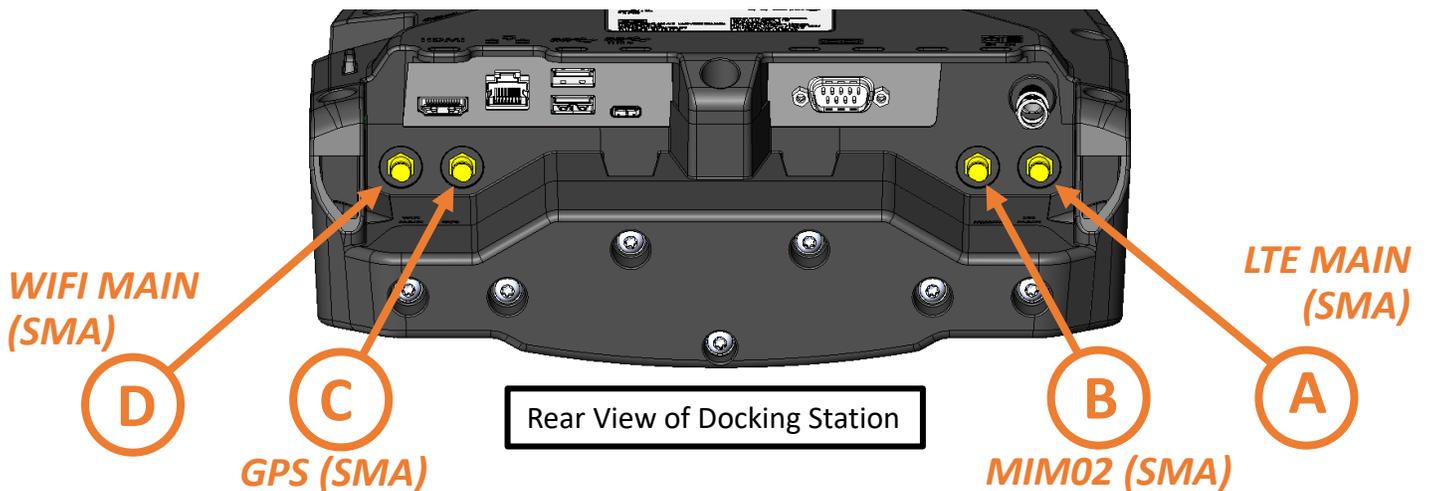
- #2 Phillips (For M4 Pan Head Screws)

Antenna Identification

DS-DELL-901-4, DS-DELL-902-4 [SHOWN], DS-DELL-903-4, DS-DELL-904-4, DS-DELL-907-4



Front View of Docking Station



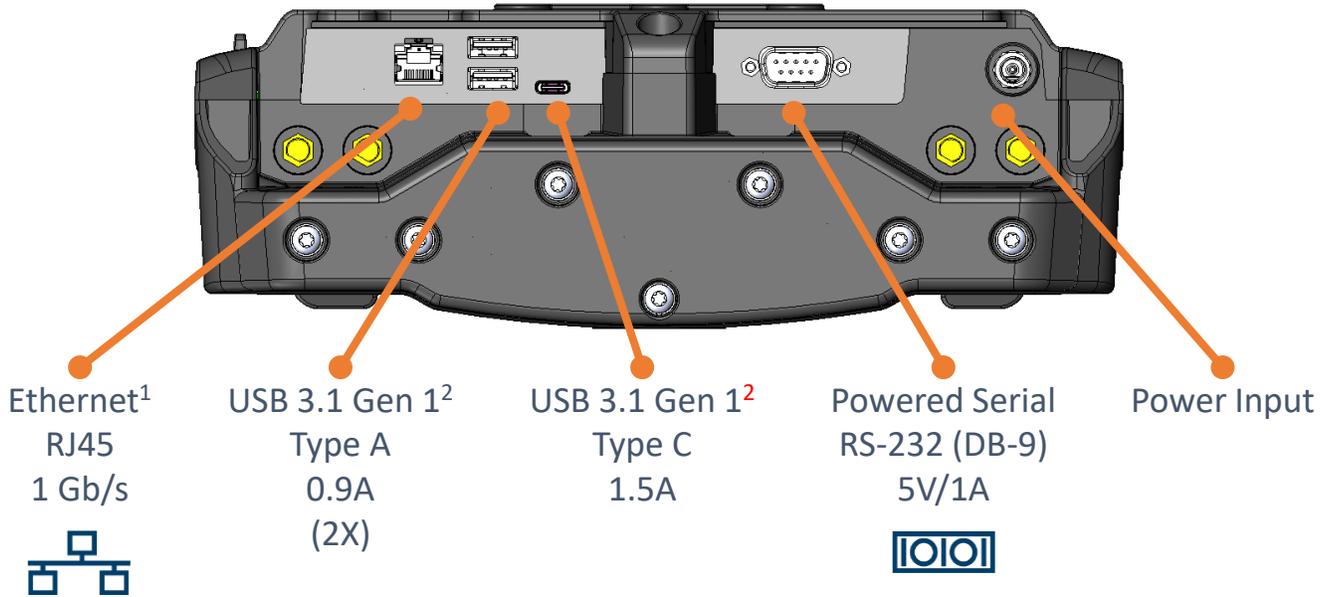
Rear View of Docking Station

Note: Antenna connectivity for this system is controlled in the computer BIOS

Port Replication Capability

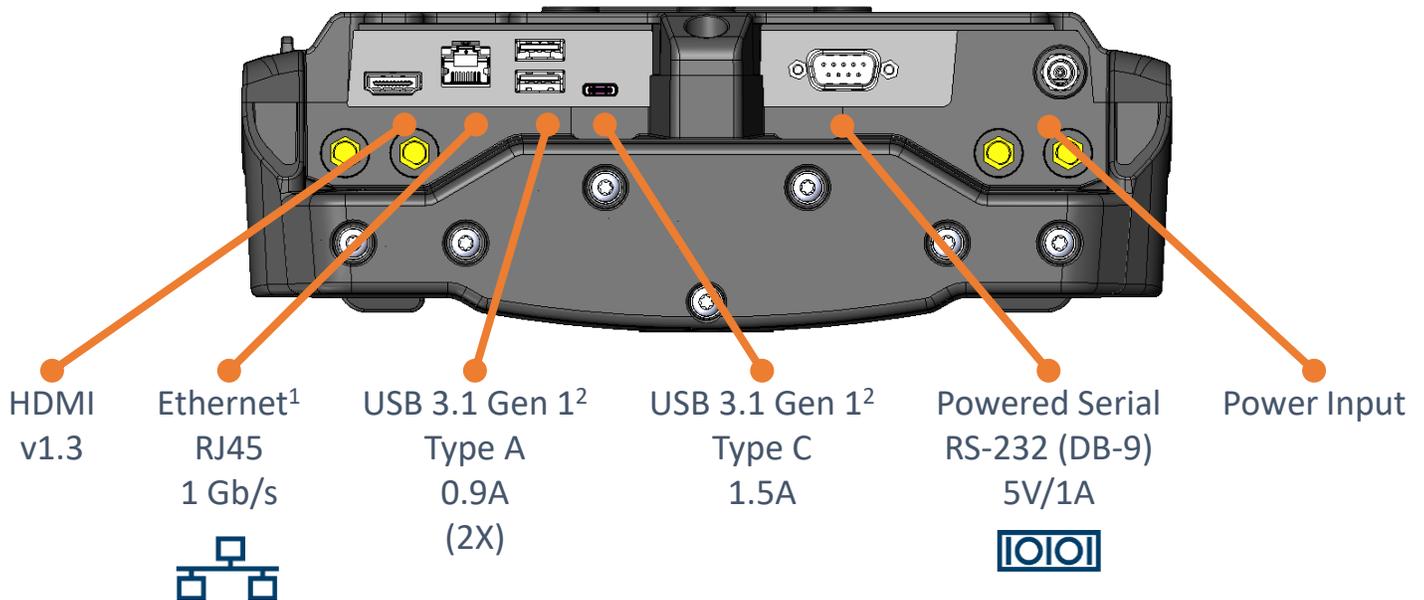
Rearward Facing Ports – Standard Electronics

DS-DELL-901, DS-DELL-901-4 [SHOWN], DS-DELL-904, DS-DELL-904-4



Rearward Facing Ports – Advanced Electronics

DS-DELL-902, DS-DELL-902-4 [SHOWN], DS-DELL-907, DS-DELL-907-4



LAN Speed	Green LED (LINK)	Yellow LED (ACTIVITY)
10Mb/s	Green	Yellow Flashing
100Mb/s	Green	Yellow Flashing
1000Mb/s	Green	Yellow Flashing

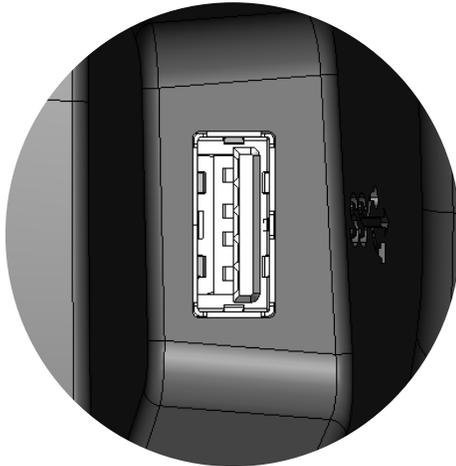
¹ PXE feature is not supported. Wake-On-LAN (WOL) feature is not supported from S4/S5 states.

² USB-A and USB-C ports do not support USB power delivery (USB PD) or DP-Alt Mode for video.

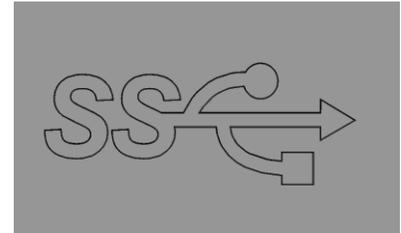
Port Replication Capability

Side Facing Ports

DS-DELL-901, DS-DELL-901-4, DS-DELL-902, DS-DELL-902-4; DS-DELL-904, DS-DELL-904-4, DS-DELL-907, DS-DELL-907-4



USB 3.0



NOTICE

DO NOT CONNECT ANY ADDITIONAL POWER SUPPLY TO THE TABLET WHEN IT IS DOCKED. MULTIPLE POWER SUPPLIES WILL CAUSE DAMAGE TO THE TABLET

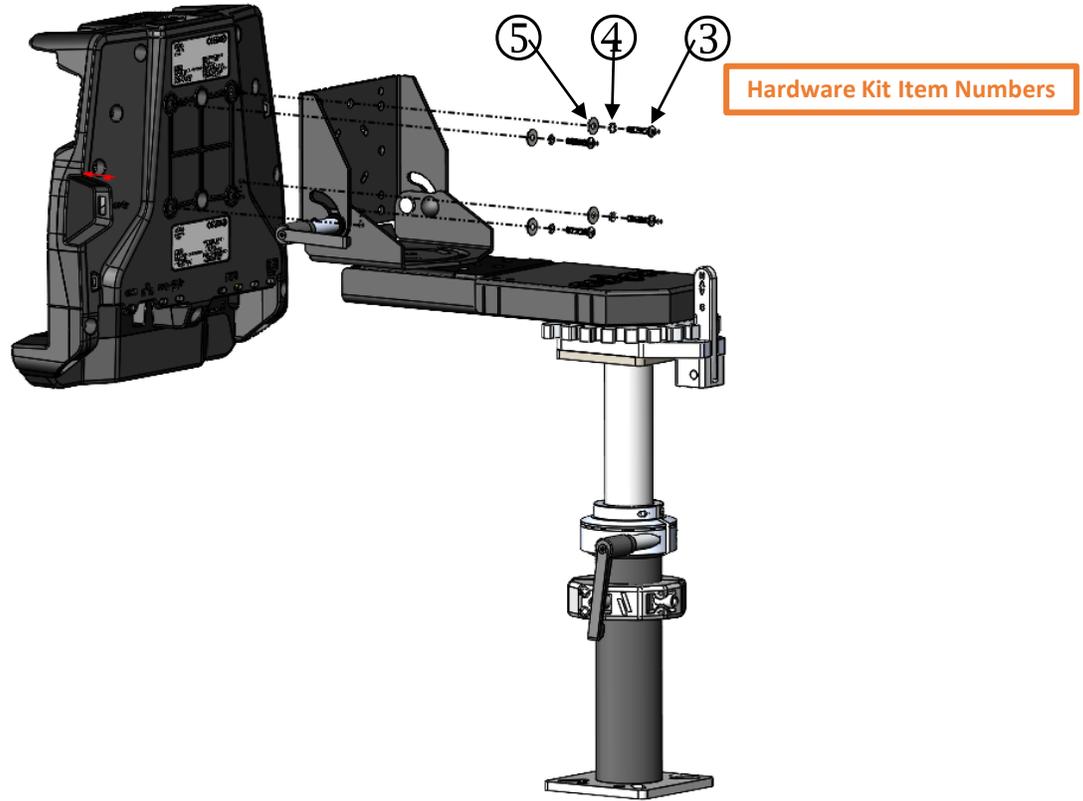


NOTE: THIS DOES NOT APPLY TO THE DS-DELL-903 & DS-DELL-903-4 CONFIGURATION (THESE DO NOT HAVE AN INTERNAL SUPPLY AND NEED TO BE POWERED WITH THE EXTERNAL PORT WHEN DOCKED).

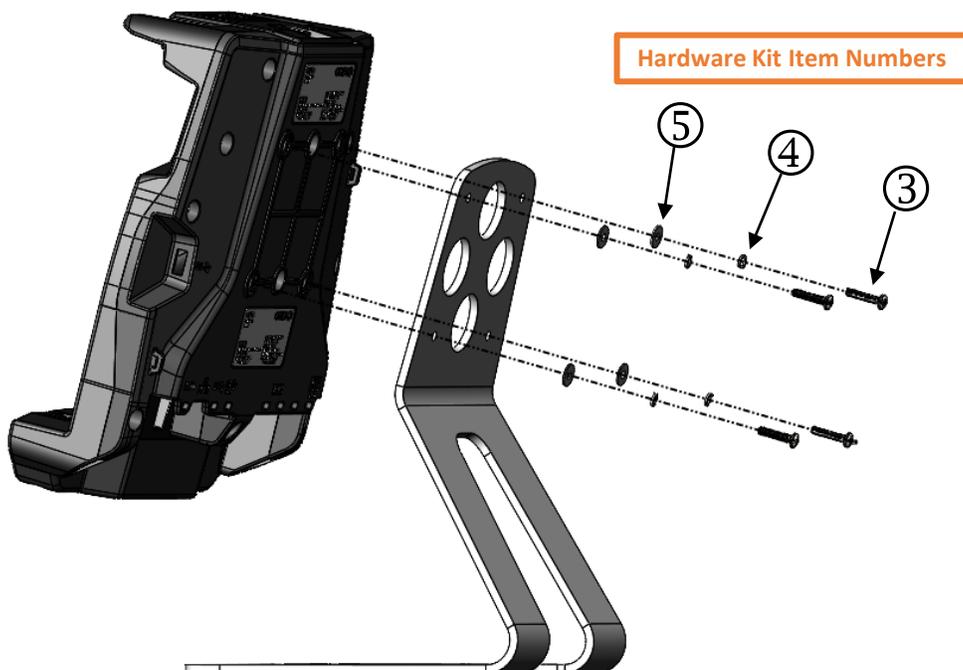
Installation

1. Align Docking Station mounting holes with the hole pattern on mounting device. Use the (4) Pan Head screws with washers and lock washers from the hardware kit (HWK-0031) to fasten the docking station to the motion device (Hardware Kit Items 3, 4, 5). Torque screws to 12-15 in-lbs (1.4-1.7 Nm).

A) HAVIS In-vehicle mounting system installation (Sold separately)

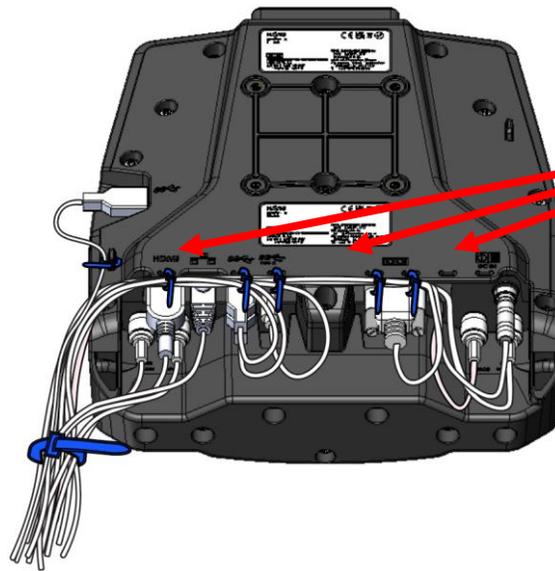


B) HAVIS Desktop Stand installation (Sold separately)

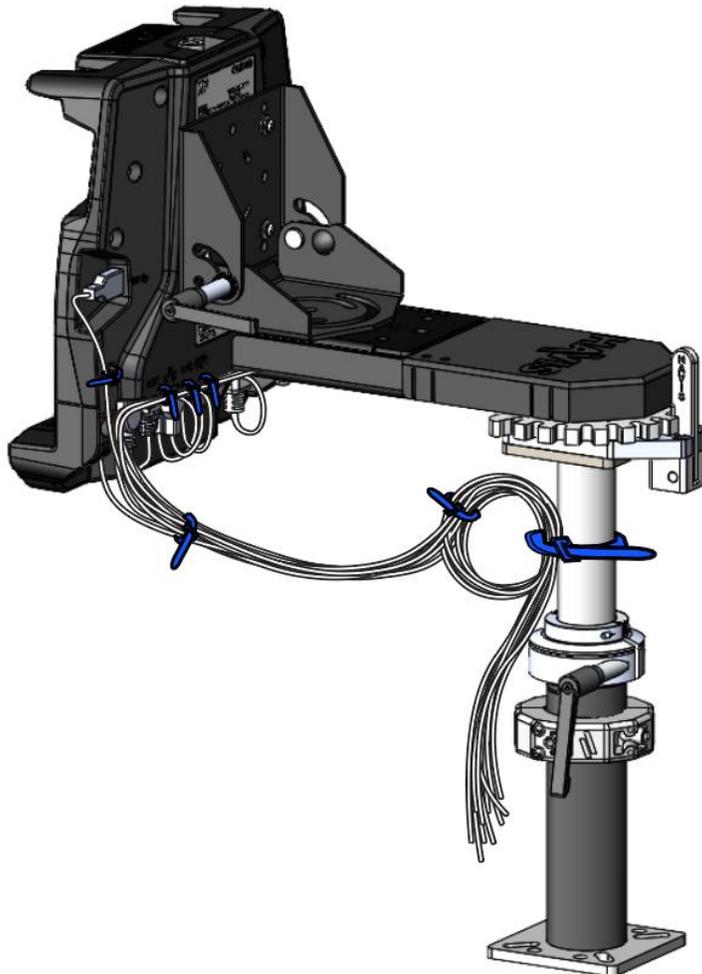


Cable Management

2. Install all of the cables that are necessary for your computing needs. Use zip ties (Hardware Kit Item 1) to strain relieve cables to strain relief points, routing all cables together so they can be attached to the mounting system



- 3. Create a service loop with cable bundle to ensure no tension is on the connectors and to enable intended motion.
- 4. Tie off cables onto a stationary part of the mounting system
(Mounting system not included with the docking station)



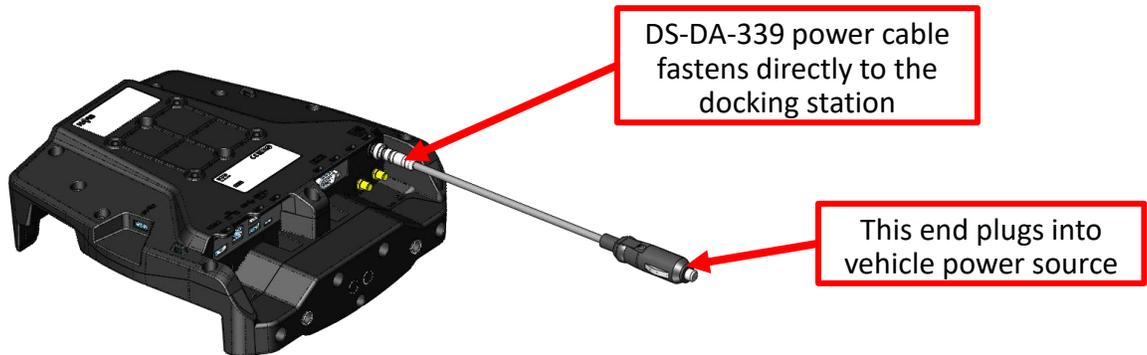
Zip tie cables onto mounting device as shown. Leave additional slack to allow motion device to move freely without stressing cables. Create a service loop if there is excess cable

Power Input Configuration

There are several different power supply options for the DS-DELL-900 Series Docking Station. Below are diagrams showing the power input set up for each specific configuration of the dock.

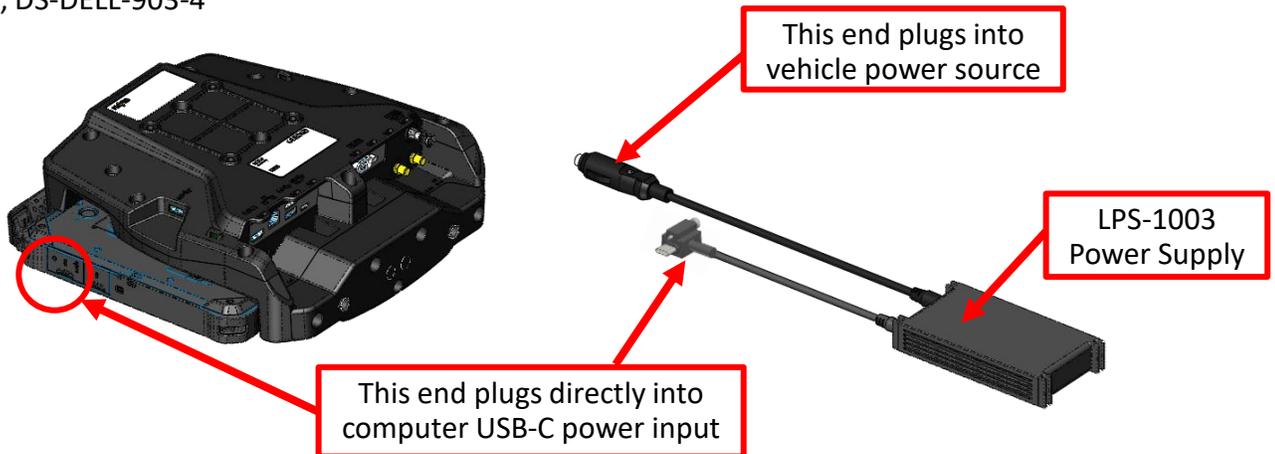
Internal Power Supply Configurations

DS-DELL-901, DS-DELL-901-4, DS-DELL-902, DS-DELL-902-4



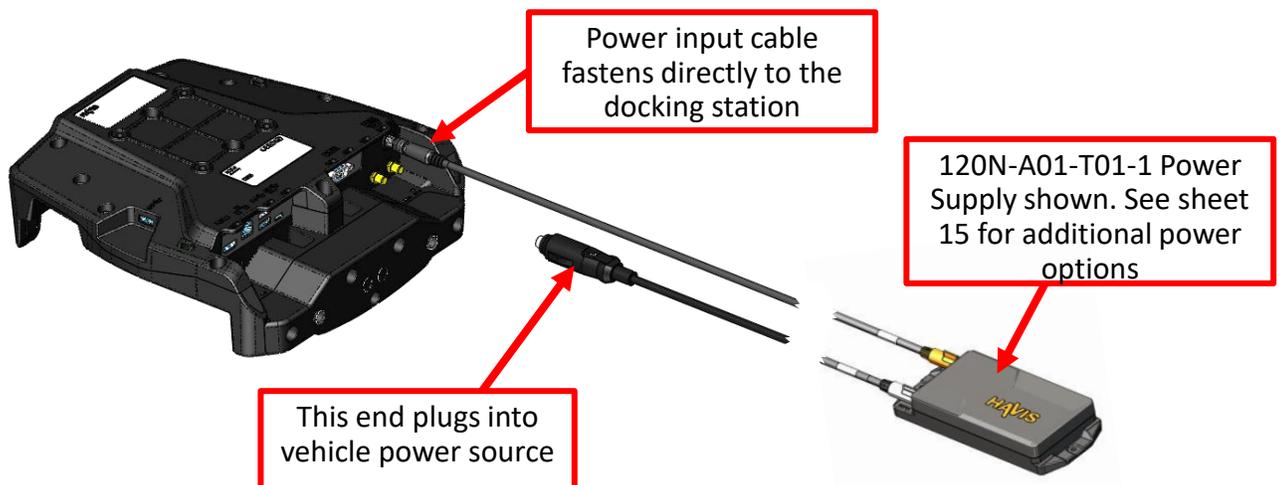
Cradle Only Configurations

DS-DELL-903, DS-DELL-903-4



External Power Supply Configurations

DS-DELL-904, DS-DELL-904-4, DS-DELL-907, DS-DELL-907-4

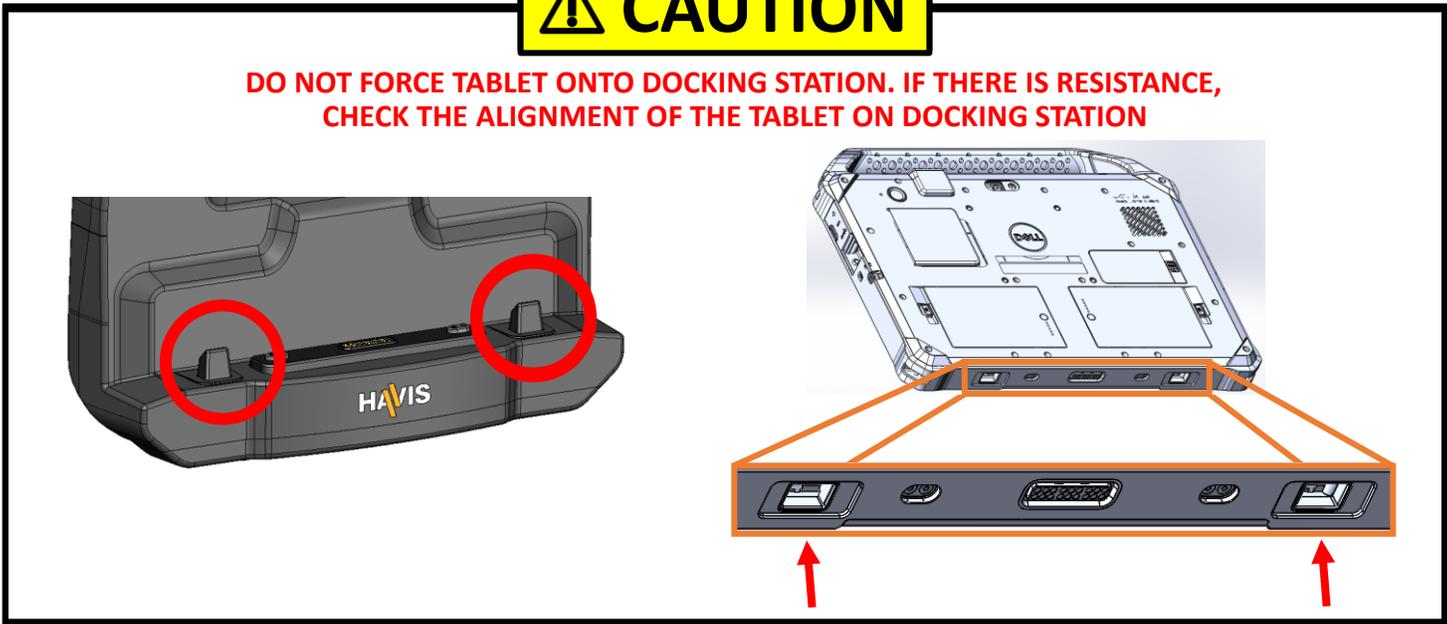


*** For clarity, all input/output power cables are shown shorter than their actual lengths

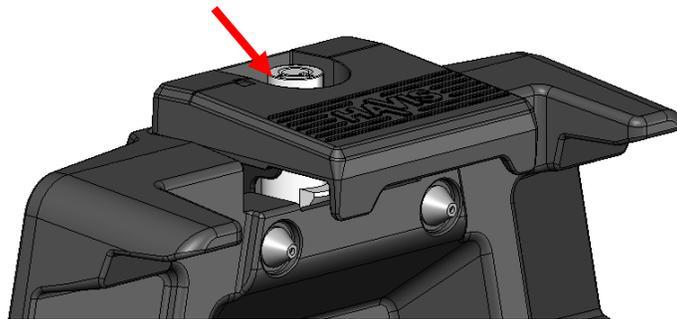
Operation - Docking

⚠ CAUTION

DO NOT FORCE TABLET ONTO DOCKING STATION. IF THERE IS RESISTANCE, CHECK THE ALIGNMENT OF THE TABLET ON DOCKING STATION



1. Ensure docking station is unlatched by pressing the lock button on the top of the docking station.



2. Hold the tablet in the landscape orientation, with the bottom side angled towards the docking station. Lower the tablet onto the docking station by aligning the tablet alignment sockets with the alignment posts on the docking station.

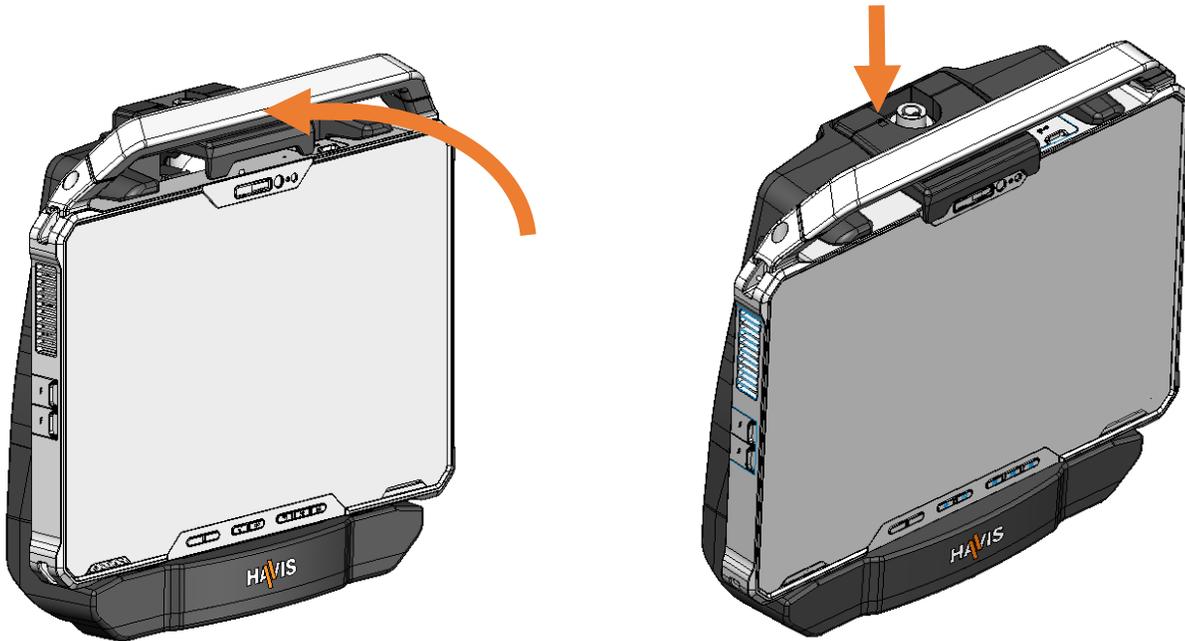


⚠ WARNING

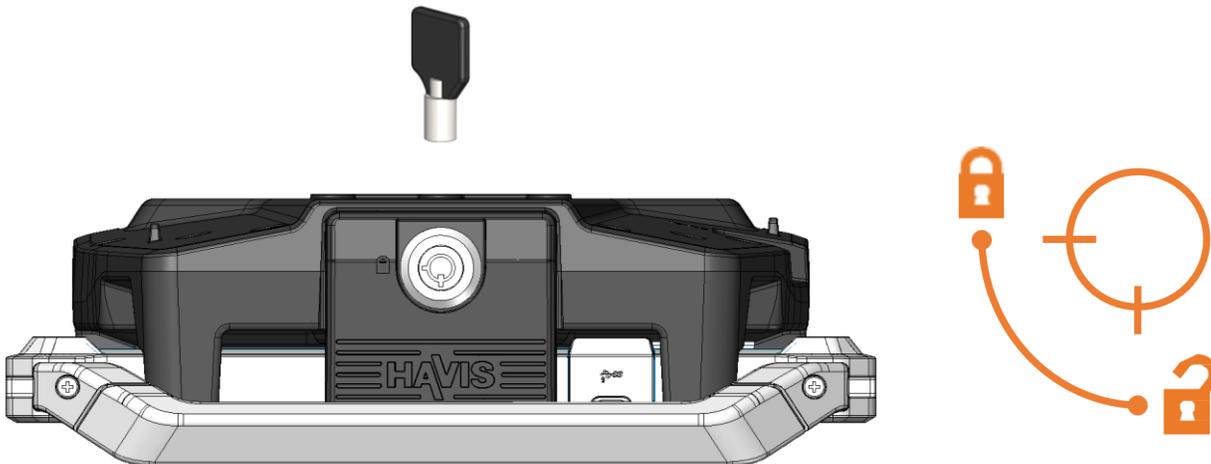
DO NOT DOCK TABLET BACKWARDS IN THE DOCKING STATION OR DAMAGE TO THE SCREEN, TABLET ELECTRONICS, AND DOCKING STATION ELECTRONICS WILL RESULT

Operation – Docking (Continued)

3. Pivot the top of the tablet into the docking station and apply light rearward pressure to the top center of tablet or handle. Apply pressure until the tablet is fully seated. Secure tablet by closing the latch, push downward until you hear the click of the latch which indicates the latch is securely closed.

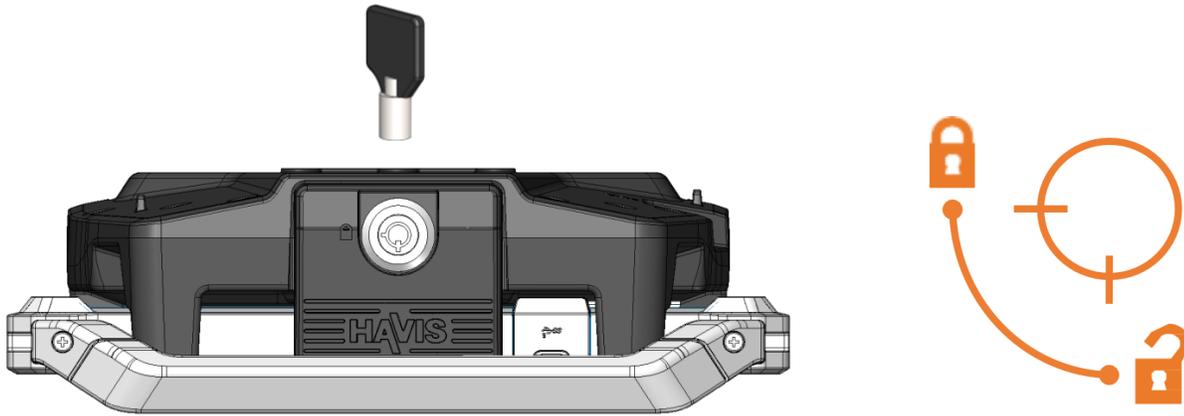


4. For theft deterrence, secure tablet by locking the docking station with the supplied key (Hardware Kit Item 2)

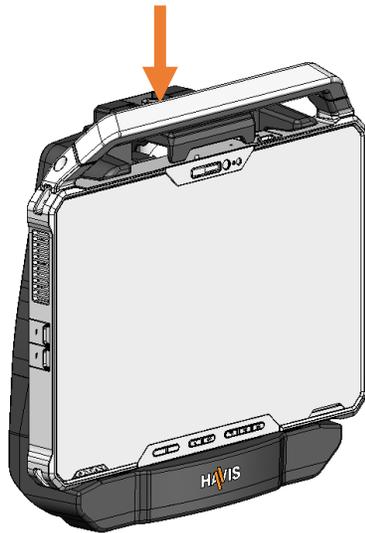


Operation - Undocking

1. If previously locked, unlock Docking Station using the supplied key.



2. While securely holding the tablet, push the lock button on the top of the docking station until the latch hook releases.



3. Once unlatched, remove the tablet by rocking the top of the tablet away from the docking station and carefully lift out of the docking station, top end first.



Regulatory Information

Canada

CAN ICES-3 (B) / NMB-3(B)

Class B equipment

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Équipement de classe B

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

United States of America

FCC Compliance

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 that may cause undesired operation.

Note: 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Responsible party (contact for FCC matters only):

Havis, Inc.
75 Jacksonville Road
Warminster, PA 18974
havis.com/contact-us

Related Products

Havis offers a wide variety of accessory products specifically for use with your Docking Station. For more information or to order, please visit www.havis.com.



DS-DA-339
Power Cable

Power cable for DS-DELL-901, DS-DELL-901-4, DS-DELL-902, DS-DELL-902-4 Docking Stations.



DS-DA-218
Desktop Stand

Durable stand for mounting the DS-DELL-900 Series Docking Station in the home or office.



DS-DA-502
Replacement Keys

Set of (2) replacement keys for DS-DELL-900 Series Docking Stations



Power Supplies (for DS-DELL-904, DS-DELL-904-4, DS-DELL-907, DS-DELL-907-4)

120N-A01-T01-1
Havis 120W DC Power Supply w/Straight Connector
DS-DA-356

Cigarette Port Input Power Cable for Havis 120N Power Supplies



LPS-186
Isolated Power Supply w/Hardwired Input Cable (12-32VDC)

LPS-187
Isolated Power Supply w/Hardwired Input Cable (20-60VDC)

LPS-188
Isolated Power Supply w/Hardwired Input Cable (70-110VDC)

LPS-198
AC Power Supply w/Hardwired Output Cable



Power Supplies (for DS-DELL-903, DS-DELL-903-4)

LPS-1003
Power Supply w/USB-C Power Output Cable