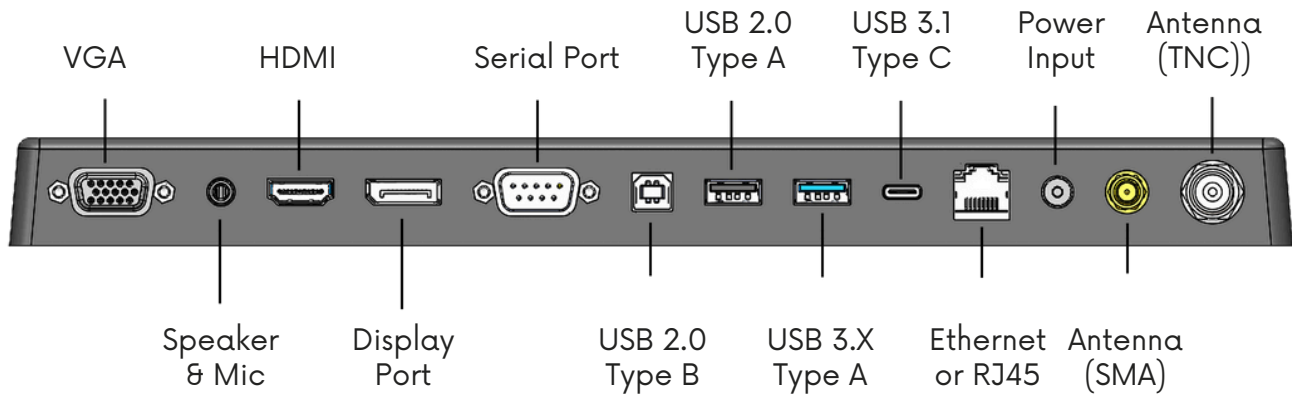


ZEBRA SPEEDS & FEEDS



THE INS & OUTS OF DOCKING STATIONS



VGA	Video Graphics Array(VGA) port: analog signal for video
Speaker & Mic	Audio ports: analog signal for audio: green=audio out; pink=microphone in
HDMI	High Definition Multimedia Interface: digital signal for audio & video
Display Port	Digital signal for audio & video
Serial Port	RS232 port, analog signal to connect peripherals
USB 2.0 Type B	Digital signal, transmission rate of 480 Mbps; B type rectangle connector
USB 2.0 Type A	Digital signal, transmission rate of 480 Mbps; A type rectangle connector
USB 3.X Type A	Digital signal, transmission rate of 5 Gbps; A type of rectangle connector
USB 3.1 Type C	Digital signal, transmission rate of 5 Gbps; C type of rectangle connector
Ethernet	RJ45 port: analog & digital signals, transmission rate of 100 Mbps to Gbps
Power Input	Barrel connector: transfer 10-12v electrical current
Antenna (SMA)	Coaxial RF 7/16" female connector with external threads: mobile & Wifi
Antenna (TNC)	Coaxial RF 1/4" female connector with external threads: mobile & Wifi

Havis Docking Station

ZEBRA ET4X 8" & 10" TABLETS

DS-ZEB-300 SERIES



ET4X Tablet Solution

- Adjustable design compatible with both 8" & 10" devices with frames
- Standard & Advanced port replication (optional)
- Isolated & non-isolated internal power supply (optional)
- LED power indicator
- Spring-loaded, floating connector head

PART NUMBER	ETHERNET	USB 2.0	USB 3.0	HDMI	VGA	SERIAL	POWERED SERIAL	DISPLAY PORT	SPEAKER / MIC	POWER INPUT	PASS-THRU ANT	ANT TYPE	EXT POWER	INT POWER
DS-ZEB-301		1 REAR								9-36 V				NON-ISO
DS-ZEB-302-ISO		1 REAR								18-75 V				ISO
DS-ZEB-303														
DS-ZEB-304	1	2 REAR					1 @5V			9-36 V				NON-ISO

SPECIFICATIONS 8" CONFIGURATION

Height: 7.2-in (18.3cm)
 Width: 8.6-in (21.9cm)
 Depth: 2.9-in (7.4cm)
 Weight: 1.86 lbs (0.85 kg)
 Mounting: Integrated VESA 75 mounting pattern

SPECIFICATIONS 10" CONFIGURATION

Height: 8.3-in (21.1cm)
 Width: 8.6-in (21.9cm)
 Depth: 2.9-in (7.4cm)
 Weight: 1.86 lbs (0.85 kg)
 Mounting: Integrated VESA 75 mounting pattern

CERTIFICATIONS & TESTING

CE Certified; UKCA and RoHS Compliant, UL Listed (Pending)
 Vibration Testing: MIL-STD 810H 514.8
 Impact Test: Crash Simulation per SAE J1455 30mph
 Cycle Test: Latch Tested 30,000 cycles
 Environmental Testing: Hot/Cold Operation & Storage

Havis Docking Station

ZEBRA ET80 & ET85 12" TABLETS

DS-ZEB-400 SERIES



ET8X Tablet Solution

- Supports Zebra ET80 & ET85 Tablets
- Low profile, lightweight and compact design
- Standard & advanced port replication (optional)
- External isolated and non-isolated power options available
- LED power indicator

PART NUMBER	ETHERNET	USB 2.0	USB 3.0	HDMI	VGA	SERIAL	POWERED SERIAL	DISPLAY PORT	SPEAKER / MIC	POWER INPUT	PASS-THRU ANT	ANT TYPE	EXT POWER	INT POWER
DS-ZEB-401	1	1 REAR	2 REAR 1SIDE				1 @5V			19.5VDC*				
DS-ZEB-401-3	1	1 REAR	2 REAR 1SIDE				1 @5V			19.5VDC*	TRIPLE	SMA		
DS-ZEB-402	1	1 REAR	2 REAR 1SIDE	1			1 @5V			19.5VDC*				
DS-ZEB-402-3	1	1 REAR	2 REAR 1SIDE	1			1 @5V			19.5VDC*	TRIPLE	SMA		
DS-ZEB-403														

*Requires an external Havis-approved DC power supply

SPECIFICATIONS

Height: 11.25-in (28.57cm)
 Width: 13-in (33cm)
 Depth: 3.42-in (8.68cm)
 Weight: 2.58 lbs (1.1 kg)
 Mounting: Integrated VESA 75 mounting pattern

CERTIFICATIONS & TESTING

CE Certified; UKCA and RoHS Compliant
 Vibration Testing: MIL-STD 810H 514.8
 Impact Test: SAE J1455 30mph
 Cycle Test: Latch Handle & Docking Connectors 30,000 cycles
 Environmental Testing: Hot/Cold Operation & Storage

Havis Docking Station

ZEBRA ET60 & ET65 TABLETS

DS-ZEB-500 SERIES



ET6X Tablet Solution

- Supports Zebra's ET60 & ET65 Tablets
- One-handed docking & undocking
- Standard & advanced port replication (optional)
- Compact & lightweight design
- LED power indicator

PART NUMBER	ETHERNET	USB 2.0	USB 3.0	HDMI	VGA	SERIAL	POWERED SERIAL	DISPLAY PORT	SPEAKER / MIC	POWER INPUT	PASS-THRU ANT	ANT TYPE	EXT POWER	INT POWER
DS-ZEB-501		1 REAR								12VDC*				
DS-ZEB-501-3		1 REAR								12VDC*	TRIPLE	SMA		
DS-ZEB-503										USB-C				
DS-ZEB-504	1	2 REAR					1 @5V			12VDC*				
DS-ZEB-504-3	1	2 REAR					1 @5V			12VDC*	TRIPLE	SMA		

*Requires an external Havis-approved DC power supply

SPECIFICATIONS

Height: 11.1-in (28.2 cm)
 Width: 12-in (30.4 cm)
 Depth: 3.3-in (8.3 cm)
 Weight: 2.2 lbs. (1.0kg)
 Mounting: Integrated VESA 75 - mounting pattern

CERTIFICATIONS & TESTING

Vibration Testing: MIL-STD 810H 514.8
 Crash Testing: SAE J1455 30mph
 Cycle Testing: Latch handle and docking connectors 30K cycles
 Environmental Testing: Hot/Cold operational -20° C to 60° C (-4° F to 140° F);
 Hot/Cold storage -30° C to 70° C (-22° F to 158° F)

Havis Stationary Docking Station

Zebra ET60, ET65, ET60W & ET65W Tablets

SDS-ZEB-504



ET6X Tablet Solution

- Supports Zebra's ET60 & ET65 Tablets
- One-handed docking & undocking
- Compact & lightweight design
- LED power indicator

PART NUMBER	ETHERNET	USB 2.0	POWERED SERIAL	POWER INPUT
SDS-ZEB-504	1	2 Rear	1 @ 5VDC	12vdc

SPECIFICATIONS

Height: 9.9-in (252mm)
Width: 12.0-in (305 mm)
Depth: 3.3-in (84 mm)
Weight: 2.0 lbs (0.91kg)
Mounting: Integrated VESA 75 - mounting pattern

CERTIFICATIONS & TESTING

Cycle Testing: Latch handle and docking connectors 30K cycles
Environmental Testing: Hot/Cold operational -4° C to 50° C (25° F to 122° F);
Hot/Cold storage -40° C to 70° C (-40° F to 158° F)



WHICH I/O DO I NEED FOR MY DOCKING STATIONS?

Port	Connector	Type	Audio	Video	Periph	Network	Camera	Power	Cell	GPS	WiFi
VGA	VGA	A/V		X							
Speaker & Mic	3.5 mm	A/V	X								
HDMI	HDMI	A/V	X	X							
Display Port	DisplayPort	A/V	X	X							
Serial	DB9	Data			X						
USB 2.0	Type B	Data			X						
USB 2.0	Type A	Data			X						
USB 3.X	Type A	Data			X						
USB 3.1	Type C	Data/Power			X			X			
Ethernet	RJ45	Network				X	X				
Power	Varies	Power						X			
Antenna SMA	SMA	Signal							X	X	X
Antenna TNC	TNC	Signal							X	X	X

WHAT IS PASS THROUGH ANTENNA? WHICH ONE DO I NEED?

"Pass through antenna" offers connectivity through the docking station instead of external devices. Pass through antennas are used to connect devices via cellular data, WiFi, SMC connector for radio, or GPS.

WHAT IS THE DIFFERENCE BETWEEN USB 2.0, 3.0 AND 3.1? WHAT IS CONNECTOR TYPE?

USB 3.1 is capable of 10Gbps, 3USB 3.0 5Gbps and USB 2.0 480 Mbps. The connector type refers to the shape. Connector A is rectangular, B type is square and C type is micro with bi-directional power.

WHAT IS THE DIFFERENCE BETWEEN SERIAL AND POWERED SERIAL PORTS?

Serial ports use a 9 pin connector to connect to peripherals like Bar Code Readers where data transfer is low. Powered serial ports assign 1 of the 9 pins to power the peripheral device.

WHAT IS THE DIFFERENCE BETWEEN VGA AND HDMI?

VGA connection offers display but requires a separate audio port for a full audio/video experience. HDMI integrates audio with a high definition video signal, thus fewer connections.

DO I NEED ETHERNET IN A MOBILE APPLICATION? IS ETHERNET STILL A VIABLE I/O?

Ethernet ports enable in-vehicle networking with other computers and external vehicle networking when paired with a mobile modem. Peripherals like video camera systems use Ethernet to transmit data.

WHAT IS THE DIFFERENCE BETWEEN A DOCKING STATION AND A CRADLE?

Docking stations offer port replication for a majority of the input/output connections on the device. A cradle does not offer electronics for connectivity, nor port replication.

WHAT IS THE DIFFERENCE BETWEEN BASIC AND ADVANCED PORT REPLICATION OPTIONS?

"Advanced" port replication will offer the fullest set of input/output for a given platform. "Basic" versions offer a reduced set for less demanding applications.



COMPLETE SOLUTIONS

RETAIL & HOSPITALITY
PUBLIC SAFETY
ENERGY & UTILITIES
WAREHOUSE & DISTRIBUTION

FIELD OPERATIONS
TRANSPORTATION & LOGISTICS
HEALTHCARE
MILITARY, DEFENSE & AEROSPACE

Havis is the leader in providing end-to-end rugged mobility solutions for demanding environments. We partner with leading automotive and technology companies to design innovative products that maximize productivity, safety, and quality.

1.800.524.9900 | 75 JACKSONVILLE ROAD, WARMINSTER, PA 18974

