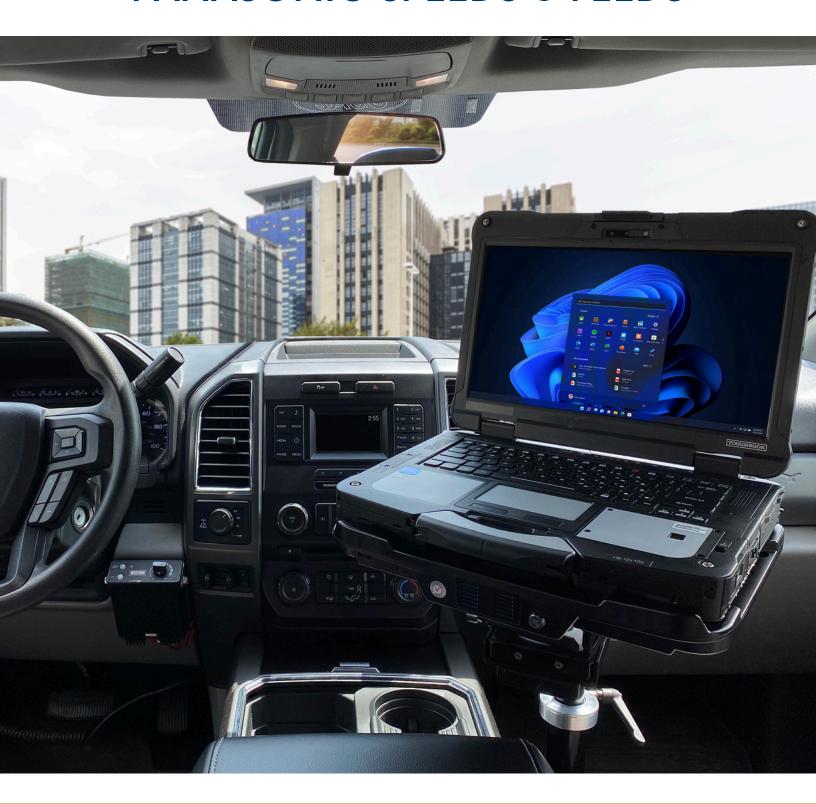


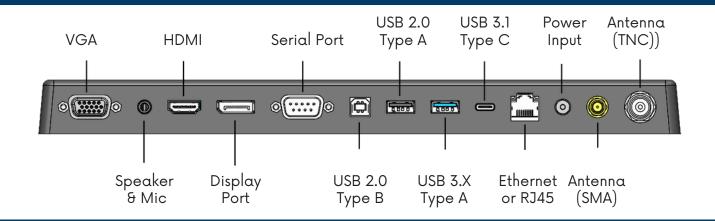
Panasonic CONNECT

PANASONIC SPEEDS & FEEDS





THE INS & OUTS OF DOCKING STATIONS



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

Havis Docking Station TOUGHBOOK 55 DS-PAN-430



TOUGHBOOK Laptop Solution

- Low profile, lightweight and flexible design
- · Port replication with integrated strain relieving
- Retractable connector cover protects pins
- · Backwards compatible for existing fleets
- Dual Pass-Thru Antenna Connections (Optional)
- External Power Supply (Optional)
- Bundles available for convenient solutions

PART NUMBER	ETHERNET	USB 3.0	НБМІ	VGA	SERIAL	POWER	PASS-THRU ANT	ANT	EXT POWER
DS-PAN-431	1	2 REAR	1	1	1	15.6 V*			
DS-PAN-431-2	1	2 REAR	1	1	1	15.6 V*	DUAL	TNC	
DS-PAN-432N	1	2 REAR	1	1	1	15.6 V			120N-B01-S03-1
DS-PAN-432N-2	1	2 REAR	1	1	1	15.6 V	DUAL	TNC	120N-B01-S03-1
DS-PAN-433									
DS-PAN-434	1	2 REAR			1	15.6 V*			
DS-PAN-434-2	1	2 REAR			1	15.6 V*	DUAL	TNC	
DS-PAN-435N	1	2 REAR			1	15.6 V			120N-B01-S03-1
DS-PAN-435N-2	1	2 REAR			1	15.6 V	DUAL	TNC	120N-B01-S03-1
DS-PAN-436N						15.6 V			120N-B01-R03-1

^{*} Requires an external Panasonic authorized DC power supply

SPECIFICATIONS

Height: 3.0-in (7.6 cm) Width: 14.1-in (35.8 cm) Depth: 13.7-in (34.8 cm) Weight: 5.4 lbs (2.5 kg)

Mounting: Bracket fits most motion devices

CERTIFICATIONS & TESTING

TOUGHBOOK, CE, C-Tick Certified; RoHS Compliant

Vibration Testing: MIL-STD-810H 514.8 Impact Test: Crash Simulation per SAE J1455 Cycle Test: Latch Tested 30,000 cycles



Havis Docking Station TOUGHBOOK G2 DS-PAN-720



TOUGHBOOK Tablet Solution

- Low profile, lightweight and flexible design
- · Port replication with integrated strain relieving
- Dual Pass-Thru Antenna Connections (Optional)
- External Power Supply (Optional)
- Bundles available for convenient solutions

PART NUMBER	ETHERNET	USB 3.0	HDMI	VGA	SERIAL	POWER INPUT	PASS-THRU ANT	ANT TYPE	EXT POWER
DS-PAN-721	1	2 REAR	1	1	1	16 V*			
DS-PAN-721-2	1	2 REAR	1	1	1	16 V*	DUAL	TNC	
DS-PAN-722N	1	2 REAR	1	1	1	16 V			120N-B01-S03-1
DS-PAN-722N-2	1	2 REAR	1	1	1	16 V	DUAL	TNC	120N-B01-S03-1
DS-PAN-723									
DS-PAN-725N	1	2 REAR			1	16 V			120N-B01-S03-1
DS-PAN-725N-2	1	2 REAR			1	16 V	DUAL	TNC	120N-B01-S03-1

^{*} Requires an external Panasonic authorized DC power supply

SPECIFICATIONS

Height: 10.0-in (25.5 cm) Width: 11.4-in (28.9 cm) Depth: 4.4-in (11.1 cm) Weight: 2.6 lbs (1.2 kg) Mounting: VESA 75

CERTIFICATIONS & TESTING

TOUGHBOOK, CE, C-Tick, E-Mark Certified; RoHS Compliant; UL Listed

Vibration Testing: MIL-STD 810G 514.5 Impact Test: Crash Simulation per SAE J1455 Cycle Test: Latch Tested 30,000 cycles



Havis Docking Station TOUGHBOOK G2 DS-PAN-1010



TOUGHBOOK Laptop Solution

- Low profile, lightweight and flexible design
- · Port replication with integrated strain relieving
- · Retractable connector cover protects pins
- Dual Pass-Thru Antenna Connections (Optional)
- External Power Supply (Optional)
- Bundles available for convenient solutions

PART NUMBER	ETHERNET	USB 3.0	НБМІ	VGA	SERIAL	POWER INPUT	PASS-THRU ANT	ANT TYPE	EXT POWER
DS-PAN-1011	1	2 REAR	1	1	1	16 V*			
DS-PAN-1011-2	1	2 REAR	1	1	1	16 V*	DUAL	TNC	
DS-PAN-1012N	1	2 REAR	1	1	1	16 V			120N-B01-R03-1
DS-PAN-1012N-2	1	2 REAR	1	1	1	16 V	DUAL	TNC	120N-B01-R03-1
DS-PAN-1013									
DS-PAN-1015N	1	2 REAR			1	16 V			120N-B01-R03-1
DS-PAN-1015N-2	1	2 REAR			1	16 V	DUAL	TNC	120N-B01-R03-1

^{*} Requires an external Panasonic authorized DC power supply

SPECIFICATIONS

Height: 2.5-in (6.3 cm) Width: 11.1-in (28.1 cm) Depth: 9.6-in (24.4 cm) Weight: 4.3 lbs (1.9 kg)

Mounting: Bracket fits most motion devices

CERTIFICATIONS & TESTING

TOUGHBOOK, CE, C-Tick Certified; RoHS Compliant; UL Listed

Vibration Testing: MIL-STD 810G 514.5 Impact Test: Crash Simulation per SAE J1455 Cycle Test: Latch Tested 30,000 cycles



Havis Docking Station TOUGHBOOK 33 DS-PAN-1110



TOUGHBOOK Tablet Solution

- · Low profile, lightweight and flexible design
- · Port replication with integrated strain relieving
- Retractable connector cover protects pins
- Dual Pass-Thru Antenna Connections (Optional)
- External Power Supply (Optional)
- Bundles available for convenient solutions

PART NUMBER	ETHERNET	USB 2.0	USB 3.0	НБМІ	VGA	SERIAL	POWER	PASS-THRU ANT	ANT TYPE	EXT POWER
DS-PAN-1111	2	2 REAR 2 FRONT	2 REAR	1	1	1	15.6 V*			
DS-PAN-1111-2	2	2 REAR 2 FRONT	2 REAR	1	1	1	15.6 V*	DUAL	TNC	
DS-PAN-1112N	2	2 REAR 2 FRONT	2 REAR	1	1	1	15.6 V			120N-B01-R03-1
DS-PAN-1112N-2	2	2 REAR 2 FRONT	2 REAR	1	1	1	15.6 V*	DUAL	TNC	120N-B01-R03-1
DS-PAN-1113										
DS-PAN-1114	2	2 REAR 2 FRONT	2 REAR			1	15.6 V*			
DS-PAN-1114-2	2	2 REAR 2 FRONT	2 REAR			1	15.6 V*	DUAL	TNC	
DS-PAN-1115N	2	2 REAR 2 FRONT	2 REAR			1	15.6 V			120N-B01-R03-1
DS-PAN-1115N-2	2	2 REAR 2 FRONT	2 REAR			1	15.6 V	DUAL	TNC	120N-B01-R03-1

^{*} Requires an external Panasonic authorized DC power supply

SPECIFICATIONS

Height: 2.7-in (6.6 cm) Width: 12.5-in (31.7 cm) Depth: 11.7-in (29.8 cm) Weight: 5.4 lbs (2.4 kg)

Mounting: Bracket fits most motion devices

CERTIFICATIONS & TESTING

TOUGHBOOK, CE, C-Tick, E-Mark Certified; RoHS Compliant; UL Listed

Vibration Testing: MIL-STD-810H 514.8 Impact Test: Crash Simulation per SAE J1455 Cycle Test: Latch Tested 30,000 cycles



Havis Docking Station TOUGHBOOK 33, TOUGHBOOK 33 5G Panasonic CONNECT DS-PAN-1210



TOUGHBOOK Tablet Solution

- Compatible with both the TOUGHBOOK 33 and TOUGHBOOK 33 5G
- Low profile, lightweight and flexible design
- · Port replication with integrated strain relieving
- Dual Pass-Thru Antenna Connections (Optional)
- External Power Supply (Optional)
- Bundles available for convenient solutions

PART NUMBER	ETHERNET	USB 2.0	USB 3.0	HDMI	VGA	SERIAL	POWER	PASS-THRU ANT	ANT TYPE	EXT POWER
DS-PAN-1211	2	4	2			1	15.6V*			
DS-PAN-1211-2	2	4	2			1	15.6V*	2	TNC	
DS-PAN-1212N	2	4	2			1	15.6V			120N-B01-R03-1
DS-PAN-1212N-2	2	4	2			1	15.6V	2	TNC	120N-B01-R03-1
DS-PAN-1213										
DS-PAN-1214	2	4	2	1	1	1	15.6V*			
DS-PAN-1214-2	2	4	2	1	1	1	15.6V*	2	TNC	
DS-PAN-1215N	2	4	2	1	1	1	15.6V			120N-B01-R03-1
DS-PAN-1215N-2	2	4	2	1	1	1	15.6V	2	TNC	120N-B01-R03-1

^{*} Requires an external Panasonic authorized DC power supply

SPECIFICATIONS

Height: 11.8" (300mm) Width: 12.9" (327 mm) Depth: 3.5" (89 mm) Weight: 3.3 lbs (1.49 kg)

Mounting: VESA 75 & RAM 2.25" Ball

CERTIFICATIONS & TESTING

Vibration Testing: MIL-STD 810H 514.8 Crash Testing: SAE J1455 30mph Cycle Testing: Dock/undock 30K cycles

Environmental Testing: Hot/Cold operational -10° C to 50° C (14° F to 122° F);

Hot/Cold storage -40° C to 85° C (-40° F to 185° F) Thermal Shock: MIL-STD 810H, Method 503.7

FCC, CE, CAN ICES (B), RoHS EMC Testing: EN 55032, EN 50498

ESD: IEC 10605



Havis Docking Station TOUGHBOOK 40 DS-PAN-1500



TOUGHBOOK Laptop Solution

- Compact and lightweight
- · Port replication with integrated strain relieving
- Quad Pass-Thru Antenna Connections (Optional)
- External Power Supply (Optional)
- Bundles available for convenient solutions

PART	ETHERNET	USB 2.0 TYPE A	USB 3.0 TYPE A	USB 2.0 TYPE C	USB 3.0 TYPE C	НБМІ	SERIAL	POWER INPUT	PASS-THRU ANT	ANT TYPE	EXT POWER
DS-PAN-1501	2	2	1	1 FRONT*	2*		1	15.6V***			
DS-PAN-1501-4	2	2	1	1 FRONT*	2*		1	15.6V***	QUAD	SMA	
DS-PAN-1502N	2	2	1	1 FRONT*	2*		1	15.6V			120N-B01-R03-1
DS-PAN-1502N-4	2	2	1	1 FRONT*	2*		1	15.6V	QUAD	SMA	120N-B01-R03-1
DS-PAN-1503											
DS-PAN-1504	2	2	1	1 FRONT*	2**	1	1	15.6V***			
DS-PAN-1504-4	2	2	1	1 FRONT*	2**	1	1	15.6V***	QUAD	SMA	
DS-PAN-1505N	2	2	1	1 FRONT*	2**	1	1	15.6V			120N-B01-R03-1
DS-PAN-1505N-4	2	2	1	1 FRONT*	2**	1	1	15.6V	QUAD	SMA	120N-B01-R03-1

Note: All ports are rear-facing unless otherwise noted.

SPECIFICATIONS

Height: 2.63" (6.7 cm) Width: 14.4" (36.6 cm) Depth: 12.3" (31.3 cm) Weight: 6.25 lbs (2.5 kg)

Mounting: Bracket fits most motion devices

CERTIFICATIONS & TESTING

TOUGHBOOK, CE, C-Tick (pending); RoHS Compliant; UL Listed

Vibration Testing: MIL-STD-810H 514.8 Impact Test: Crash Simulation per SAE J1455 Cycle Test: Latch Tested 30,000 cycles



^{*} Does not support external video

^{**} External video supported; consult Owner's Manual for additional details

^{***} Requires an external Panasonic authorized DC power supply



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

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

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 SECTOR
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

