

MIT-W102

10" Medical-Grade Tablet with Intel® Pentium® Processor and PCAP Touchscreen



Features

- Equipped with DeviceOn/iService software for remote device management
- Intel® Pentium® N4200 quad-core processor
- Supports Windows 10 IOT and Linux operating systems
- 10.1" WUXGA display with multi-point projective capacitive touch control
- IP65-rated protection from water and dust ingress
- 5-ft drop tolerance
- Compact, slim design (20 mm/0.79 in)
- Wireless communication technology, including Wi-Fi, Bluetooth, and NFC (optional)
- Optional accessories include desk docking station, VESA docking station, rubber bumper/hand strap, and 3-in-1 multifunctional stand

Introduction

Advantech's MIT-W102, 10" tablet PC, is medical-grade certified, Windows-based and designed for healthcare environment. With IEC/EN/UL 60601-1 certification, this medical tablet can be used in the most critical environments like operating rooms, intensive care units and emergency rooms.

Infection control and reliability are important elements for hospital and other healthcare facilities. To fulfill the requirements, MIT-W102 is IP-65 rated for water/dust protection and easy for cleaning with the antibacterial housing.

In addition, MIT-W102 is equipped with Advantech's DeviceOn/iService software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn/iService enables easy device configuration and deployment for convenient remote device management.

Specifications

System	Processor	Intel® Pentium® N4200 processor
	Max. Speed	Quad-core 1.1GHz (burst frequency: 2.5GHz)
	Memory	LPDDR4 1600MHz 4GB on board memory (8GB upon request)
	Operating System	Windows 10 IoT Enterprise LTSC, Linux (available upon request)
Storage	SSD	1 x m.2 SSD (default 64GB, supports up to 128GB)
Display	Display Type	10.1" TFT LCD panel
	Max. Resolution	1920 x 1200
	Touch Type	Multi-point projected capacitive touch
	Glass Type	Enhanced glass with anti-glare coating
Communication	Wi-Fi	Wireless IEEE 802.11a/b/g/n/ac
	Bluetooth	Bluetooth V5.0, V4.2, V4.1, V4.0 LE, V3.0+HS, Bluetooth V2.1+EDR system
	NFC	ISO 15693, ISO 14443A/B, FeliCa, MIFARE, Tag-it, My-D, M24LRXX, I code 2 (optional)
Audio		1 x Internal speaker, 1 x internal mono microphone
Connectivity	I/O	1 x Combo audio, 1 x USB 3.0, 1 x USB 2.0, 1 x micro HDMI, 1 x DC jack, 1 x expansion port, 1 x docking port
Camera	Front	2-megapixel fixed-focus camera (optional)
	Rear	5-megapixel auto-focus camera with LED flash (optional)
Security		TPM 2.0
Control Buttons		2 x Programmable function keys, 1 x power button
System Indicators		Power, battery status, HDD, wireless connectivity, Bluetooth
Ingress Protection		IP65 rated
Power Supply	Input	90 ~ 275V _{AC} , 50 ~ 60Hz, 1.5A @ 115V _{AC} /0.75A @ 230V _{AC}
	Output	19V _{DC} , 3.15A (max.), 60 W
	Battery Capacity	Main Battery: 31.7 Whrs (11.1V 2860mAh)
Environmental	Temperature	Operating: 0 ~ 35 °C/32 ~ 95 °F Storage: -20 ~ 60 °C/-4 ~ 140 °F
	Humidity	Operating: 10% ~ 95% @ 35 °C/95 °F non-condensing Storage: 10% ~ 95% @ 60 °C/140 °F non-condensing
	Vibration	Operating: (5 ~ 500GHz) 1G Non-operating: (5 ~ 500GHz) 4, 4 mm ~ 2G
	Shock Resistance	Operating: 20 G, 11 ms; shipping: 1 ~ 200 Hz, 1.15G (refer to ISTA 2A)
	Drop Tolerance	Up to 152.4 cm/5 ft onto plywood over concrete
Characteristics	Dimensions (W x H x D)	292 x 196 x 20 mm/11.5 x 7.7 x 0.79 in
	Weight	1.1 kg/2.4 lb (base unit)
	Color	White
Certifications		FCC Class B, CE, IEC/EN/UL 60601-1, 62368-1

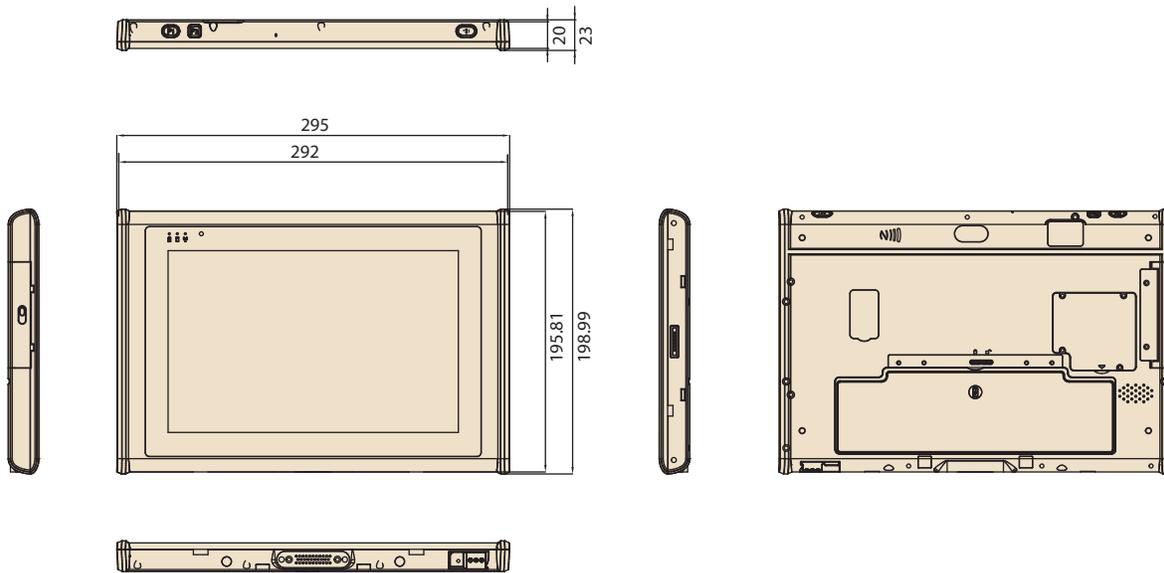
Specifications (Cont.)

DeviceOn/iService Remote Device Management	Operating System	Windows 10
	Common Controls (Reboot, Shutdown)	✓
	Remote desktop	✓(VNC)
	Device-Specific Controls	Audio
	Connection Status	✓
	Hardware Status	✓*
	Hard Disk Status	✓*
	Batch Operation Support	✓
	OTA Storage Management	FTP
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	✓*
	Kiosk Mode	
Dependant on device model	Peripherals Watchlist	✓

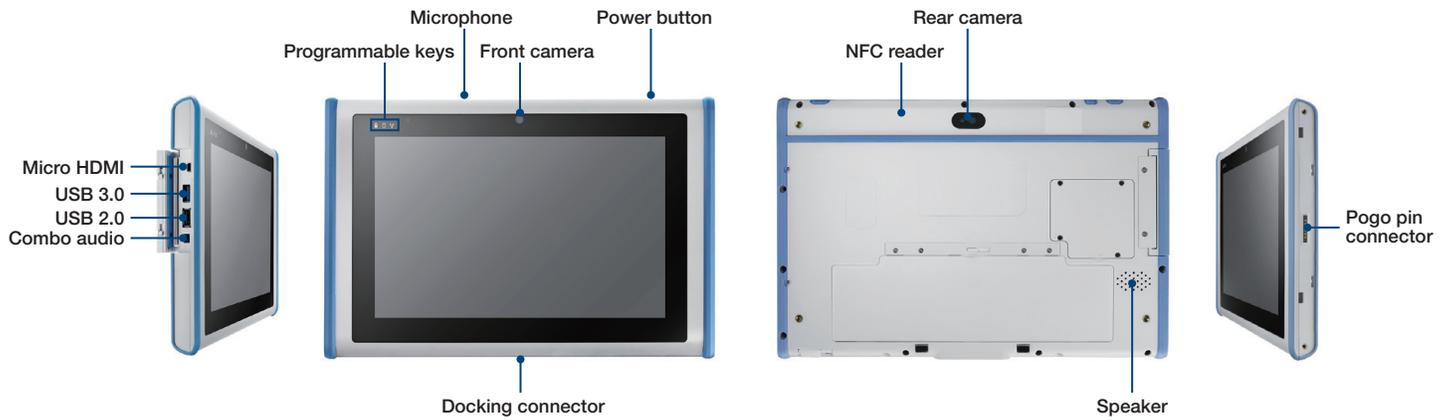
Note: DeviceOn/iService software must be downloaded from the Advantech website at <https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility>

Dimensions

Unit: mm



System Layout



Ordering Information

Part Number	Description	Memory	NFC	F/R Cameras
MIT-W102-Q04D0A00E	Intel N4200 processor, 4GB DDR memory, 64GB SSD, white, Windows 10	4GB	N/A	N/A
MIT-W102-Q08DNA01E	Intel N4200 processor, 8GB DDR memory, 128GB SSD, NFC reader, camera, white, Windows 10	8GB	Yes	Yes

Peripheral Ordering Information

Part Number	Description
1702002600	Power Cord UL 3P 10A 125V 183cm (USA)
1700000237	Power Cord PSE 3P 12A 125V 183cm (Japan)
170000596-11	Power Cord CCC 3P 10A 250V 183cm (China)
1702031836	Power Cord SAA 3P 10A 250V 183cm (NZ/AU)
1700018704	Power Cord BSI 3P 10A 250V 180cm (UK)
1702002605	Power Cord EU 3P 10A 250V 183cm 90°(EU)

DeviceOn/iService

Unified Remote Device Management Software



Features

- Supports Advantech devices equipped with Windows, Android, and Linux OS
- Flexible device, location, user, and permissions management
- Enables remote monitoring and control of hardware, software, and peripherals
- Supports over-the-air (OTA) firmware and software updates
- Ensures quick, easy, and secure device onboarding
- RESTful APIs for third-party system integration

Introduction

Advantech's DeviceOn/iService is a next-generation unified device management solution based on the WISE-DeviceOn platform. Designed to enable centralized monitoring and remote management, DeviceOn/iService supports Advantech devices equipped with Windows, Linux, or Android operating systems. The software also supports the management of applications and integrated peripherals, such as a barcode scanner, card reader, camera, and printer. Users can remotely access and control connected devices, take screenshots, rollout OTA upgrades, and use remote desktop capabilities for troubleshooting from any location at any time. Moreover, DeviceOn/iService supports batch operations to facilitate the management of multiple devices simultaneously for easy and convenient device configuration and deployment.

Total Management



Devices & Hardware

- Windows, Linux, Android
- Hardware, storage, battery



Software & Peripherals

- Software monitoring & access
- Screens, USB devices, printers



Open for Expansion

- Peripheral integration
- Open APIs for integration

Remote Access



Real-Time Monitoring

- Connection/hardware status
- Software/peripheral status
- Failure notifications



Remote Controls

- Power controls
- Audio, backlight controls
- Software controls



Troubleshooting

- Screenshots
- Remote desktop support

Operational Efficiency



OTA updates

- System/software updates
- File repository management
- App store



Batch Controls

- 1-to-many batch reboot, etc.
- Time-saving tasks



Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture



VESA Docking Station



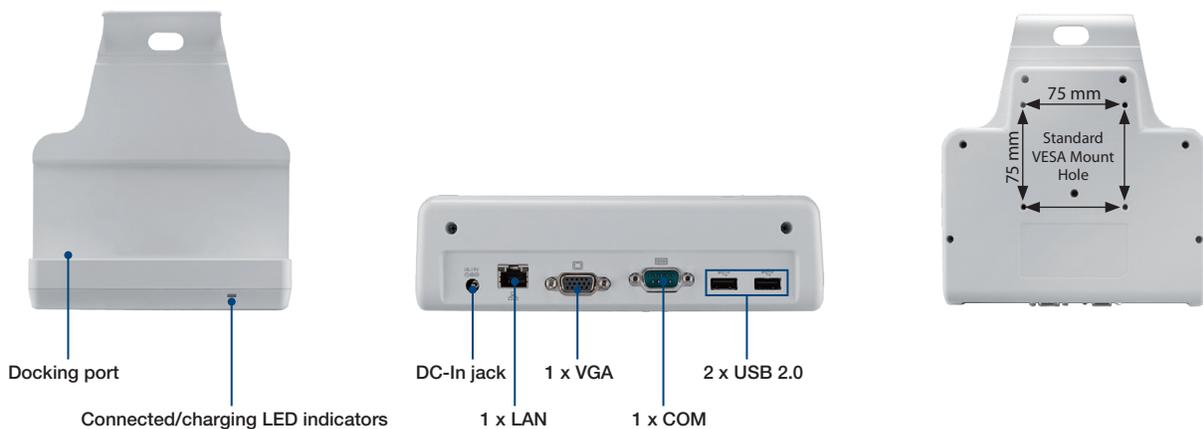
Features

- VESA (75 x 75 mm) compliant docking station
- Reliable docking connector with LED indicator for connectivity
- Equipped with a variety of I/O for easy integration

Specifications

Model Name	MIT-W102 VESA Docking Station
Color	White
Dimensions (H x W x D)	224.7 x 200 x 56.4 mm/8.84 x 7.87 x 5.64 in
Weight	630 g/1.39 lb
I/O	1 x LAN, 1 x VGA, 1 x COM, 2 x USB 2.0
Power Input	19V, 3.15A max.

I/O



Ordering Information

Part Number	Description	Color
MIT-W102-ACCVD001E	MIT-W102 VESA docking station	White

Desktop Docking Station



Features

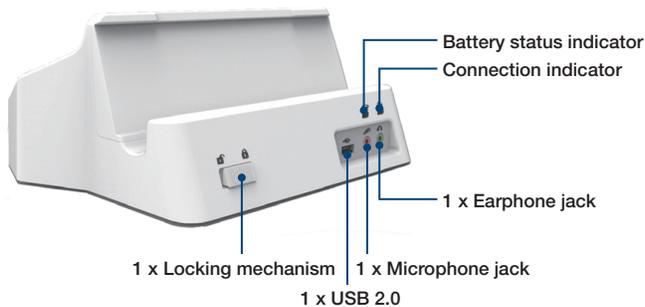
- Reliable docking connector with LED indicator for connectivity
- Equipped with a variety of I/O for easy integration
- Additional battery charging station provided

Specifications

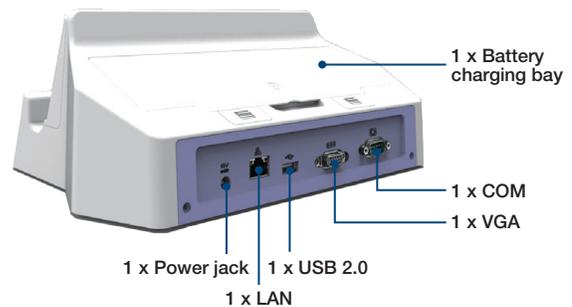
Model Name	MIT-W102 Desk Docking Station
Color	White
Dimensions (H x W x D)	260.8 x 185 x 103.8 mm/10.26 x 7.28 x 4.08 in
Weight	1 kg/2.2 lb
I/O	1 x LAN, 1 x VGA, 1 x COM, 2 x USB 2.0
Power Input	19V, 3.15A max.

I/O

Front



Rear



Ordering Information

Part Number	Description	Color
MIT-W102-ACCDS001E	MIT-W102 desk docking station	White

MIT-W102 Accessories

3-in-1 Multifunctional stand



Rubber bumper



Part Number	MIT-W101-ACCVB001E	MIT-W101-ACCBH000E
Color	Silver + black	Black
Dimensions (H x W x D)	276.6 x 175.5 x 9 mm/10.88 x 6.9 x 0.35 in	220 x 47 x 30 mm/8.66 x 1.85 x 1.18 in
Weight	210 g/0.46 lb	172 g/0.38 lb
Description	VESA mount (75 x 75 mm)	Rubber bumper with hand strap