

8" Medical-Grade Tablet with Intel® Atom™ Processor and PCAP **Touchscreen**



Features

- Equipped with DeviceOn/iService software for remote device management
- Intel® Atom™ processor with support for both Windows and Android OS
- 8" full HD projected capacitive touchscreen with scratch-resistant Corning® Gorilla® Glass
- Supports active stylus pen, gloved operation, and palm detection for increased usability
- IP65-rated protection from water and dust ingress
- 4-ft drop tolerance
- AIM extension 14-pin pogo connector supports 1D/2D barcode scanner (20°/70°) and LAN COM extension modules
- AIM dock 16-pin pogo connector supports optional peripherals (VESA dock and stand, multi-tablet charging station, and multi-battery charging station)

DeviceOn/iService Window Embedde





Introduction

AIM-55 is an 8" medical-grade tablet that features a full HD screen with projected capacitive touch control, IP65-rated ingress protection, and Windows/Android operating system. Aimed at healthcare applications, AIM-55 can be equipped with optional extension modules and peripherals that enable seamless communication and unlimited mobility for diverse usage scenarios. Moreover, the tablet can be integrated with a range of optional docking cradles and stands for flexible operation in various healthcare environments. Moreover, AIM-55 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.

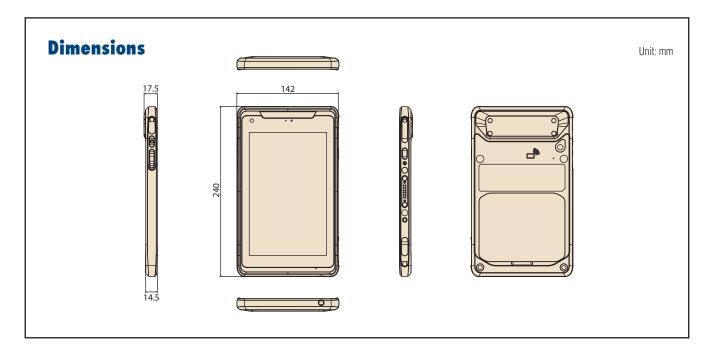
Specifications

	Processor	Intel® Atom™ x5-Z8350 quad-core, 1.6 GHz (1.44 GHz)	
System	Memory	4 GB LPDDR3	
	0S	Windows 10 IoT Enterprise, Android 6.0	
0.	eMMC	64 GB	
Storage	Micro-SD	Up to 256 GB	
	Type	8" IPS LCD	
	Resolution	WUXGA 1920 x 1200	
Display	Brightness	400 cd/m²	
2.001.03	Touch Type	10-point, multi-touch projected capacitive	
	Glass Type	Corning® Gorilla® Glass 3	
	WLAN	IEEE 802.11 b/g/n	
Communication	Bluetooth	Bluetooth® v4.0 Class 2	
Communication	NFC	13.56 MHz, compatible with ISO15693, ISO14443A, ISO 14443B, FeliCa	
	Standard I/O	1 x micro HDMI, 1 x micro USB 2.0 (host and charger), 1 x combo audio jack, 1 x SIM card slot, 1 x micro SD slot	
Connectivity	Extended I/O	1 x AIM extension 14-pin pogo connector: 1 x USB 2.0, 1 x 2-wire UART, 5V/1A power	
Connectivity	Docking	1 x AIM dock 16-pin page connector: 1 x USB 3.0, 9V power	
	Speaker	2 x Internal speakers (1W)	
Audio	Audio Jack	1 x Audio combo jack (combines stereo audio output and mono microphone input)	
	Front	2.0-megapixel fixed-focus camera	
Camera	Rear	5.0-megapixel aufo-focus camera with LED flash	
Sensors	Hour	Ambient light sensor, e-compass, g-sensor, gyroscope	
Control Buttons		1 x Power button, 2 x volume keys (up/down), 1 x programmable function key	
Battery Capacity Indicators		Green: full (100%); blue: charging; red: low (≤10%)	
Buttory Supastry marsators	1 11/1	Micro USB: 5V/3A	
	Input Voltage	Dock page: 9V/2A	
Power		4900 mAh (minimum), 18.6 WHr; swappable	
	Battery	Operating time: Up to 6 hours (dependent on usage scenario)	
	•	Charging time: 3 hours	
	Operating Temperature	0 ~ 30 °C/32 ~ 86 °F	
	Storage Temperature	-20 ~ 60 °C/-4 ~ 140 °F	
Environment	IP Rating	IP65	
	Shock	Operating: SAE J1455 compliant; non-operating: IEC 60721-3-5 5M3 compliant	
	Vibration	SAE J1455	
	Humidity	Operating: 10 ~ 90% @ 30 °C non-condensing	
	,	Storage: -10 ~ 95% non-condensing	
	Drop Tested	Up to 120 cm/4 ft onto plywood over concrete	
51 1 101 111	Dimensions (W x D x H)	240 x 142 x 14.5 mm/9.44 x 5.59 x 0.57 in	
Physical Characteristics	Weight	600 g/1.32 lb	
0 1177 11	Color	White/blue	
Certifications		CE/FCC Class B, UL60601-1, EN60601-1, EN1789, TELEC, VCCI, BSMI, NCC, CCC, SRRC	

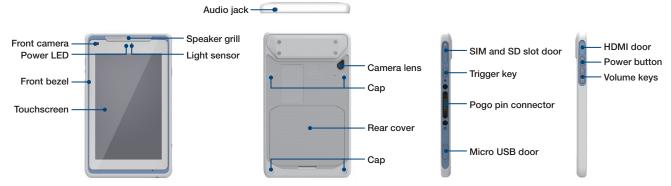
Specifications (Cont.)

	Operating System	Windows 10	Android 6
	Common Controls (Reboot, Shutdown)	✓	✓
	Remote desktop	✓(VNC)	
	Device-Specific Controls	Audio	Audio, Backlight
	Connection Status	✓	✓
5	Hardware Status	√ *	√*
DeviceOn/iService	Hard Disk Status	√ *	
Remote Device Management	Batch Operation Support	✓	✓
	OTA Storage Management	FTP	Local blob
	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



System Layout



Ordering Information

Medical-Grade Tablets

Part Number	Description
AIM-55AT-12301001	Intel® Atom™ x5-Z8350 1.44 GHz CPU, 4GB memory, 64GB storage, Wi-Fi module, Win 10 IoT (64 bit)
AIM-55AT-13301001	Intel® Atom™ x5-Z8350 1.44 GHz CPU, 4GB memory, 64GB storage, Wi-Fi module, Android 6.0

Peripherals

Part Number	Description
AIM-BCRS-0020	Barcode scanner 20° (Honeywell n3680 scan engine)
AIM-BCRS-0070	Barcode scanner 70° (Honeywell n3680 scan engine)
AIM-LANC-0001	LAN COM (1 x RJ45, 1 x COM)
AIM-SRP0-0000	Hand strap
AIM-SRP0-0001	Shoulder strap (portrait)
AIM-SRP0-0002	Shoulder strap (landscape)
AIM-VSD0-0001	AIM-55 VESA dock with full I/O
AIM-VSD0-0003	AIM-55 VESA dock with USB and charger only
HIT-STD-W001-C	VESA dock stand
AIM-P704	EETi active stylus
AIM-MTCS-0001	Multi-tablet charging station
AIM-MBCS-0001	Multi-battery charging station

Optional Accessories

Part Number	Description
Y5AAIM5500	AIM-55 power cable, white, (US), (Phihong)
XAIM-A19WMUSB-M	Adaptor MM18M-59A-R for medical devices (Phihong)
1700001524	Power cable, UL, 3P, 10A, 125V, 183 cm (US)
1700008921	Power cable, PSE, 3P, 7A, 125V, 183 cm (Japan)
1700019146	Power cable, CCC, 3P, 10A, 125V, 183 cm (China)
1700018553	Power cable, SAA, 3P, 2.5A, 250V, 183 cm (Australia/NZ)
170203180A	Power cable, BSI, 3P, 2.5A, 250V, 183 cm (UK)
170203183C	Power cable, CE, 3P, 10A, 250V, 183 cm (EU)

Note: The above power cables are suitable for AIM-55, AIM-VSD, and AIM-MCS.

Packing List

Description
1 x AIM-55
1 x Lithium-ion battery (3.8V/4900mAh)
1 x AC adaptor
1 x Power cable (TW/US)

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

Remote Access

- Real-Time Monitoring

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



OTA updates

Operational Efficiency

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



Software & Peripherals

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



Remote Controls

- Power controls
- Audio, backlight controls
- Software controls



Batch Controls

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



Open for Expansion

- Peripheral integration
- Open APIs for integration



Troubleshooting

- Screenshots
- Remote desktop support



Setup Booster

- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture



AIM-55 Office/VESA Docking Station



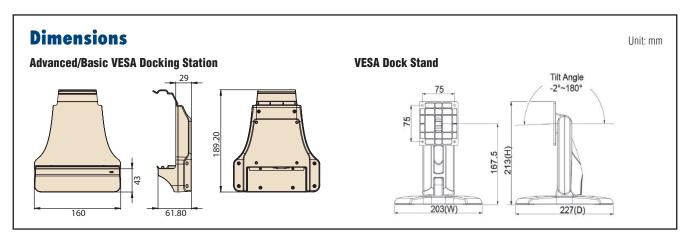
Features

- 9 ~ 32 V input voltage range
- VESA (75 x 75 mm) compliant docking station
- -10 ~ 50 °C/14 ~122 °F operating temperature
- Reliable docking connector for office applications

C € FCC

Specifications

		Advanced VESA Docking Station	Basic VESA Docking Station
1/0		2 x USB 3.0 1 x RS-232 COM 1 x Gigabit LAN 1 x Power jack	2 x USB 2.0 1 x Power jack
Stand		-	-
Power	Input Voltage	9 ~ 32 V	19 V
Mechanical	Dimensions (W x D x H)	160 x 61.8 x 189.2 mm/6.3 x 2.4 x 7.4 in	160 x 61.8 x 189.2 mm/6.3 x 2.4 x 7.4 in
IVICUIAIIICAI	Weight	0.282 kg/0.62 lb	0.28 kg/0.61 lb
	Operating Temperature	-10 ~ 50 °C/14 ~ 122 °F	-10 ~ 50 °C/14 ~ 122 °F
Environment	Storage Temperature	-20 ~ 70 °C/-4 ~ 158 °F	-20 ~ 70 °C/-4 ~ 158 °F
EHVITOHITIEHL	Safety	UL, CB, LVD, CCC	UL, CB, LVD, CCC
	Certifications	CE, FCC, CCC	CE, FCC, CCC



Ordering Information

Part Number	Description
AIM-VSD0-0001	AIM 8 advanced VESA docking station (full I/O)
AIM-VSD0-0003	AIM 8 basic VESA docking station (USB and charger only)
HIT-STD-W001-C	AIM 8 VESA stand

Packing List

Item	AIM-VSD0-0001	AIM-VSD0-0003
1	1 x VESA dock with full I/O	1 x VESA dock (USB and charger only)
2	1 x AC/DC adaptor	1 x AC/DC adaptor

Note: The above products do not include a power cable. Customers must order them separately for the specific country of use.

Optional Accessories

Part Number	Description
96PSA-A65W19V1-3	Adaptor A/D 100 ~ 240V, 65W, 19V, C6 DC plug 180° 62368
1700001524	Power cable, UL, 3P, 10A, 125V, 180 cm (US)
1700008921	Power cable, PSE, 3P, 7A, 125V, 183 cm (Japan)
1700019146	Power cable, CCC, 3P, 10A, 125V, 183 cm (China)
1700018553	Power cable, SAA, 3P, 2.5A, 250V, 183 cm (Australia/NZ)
170203180A	Power cable, BSI, 3P, 2.5A, 250V, 183 cm (UK)
170203183C	Power cable, CE, 3P, 10A, 250V, 183 cm (EU)

AIM-55 Multi-Bay Charging Station



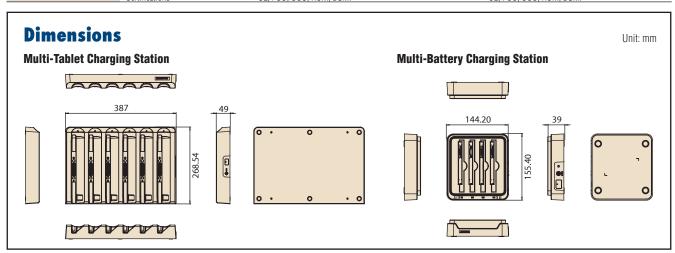
Features

- Supports charging of up to 6 tablets/4 batteries simultaneously
- Overcurrent and overvoltage protection provided
- Rapid single-handed docking and undocking
- LED indicators for monitoring charging status

△ ⊖ C€ FCC **©**

Specifications

		Multi-Tablet Charging Station	Multi-Battery Charging Station
Capacity	Number of Bays	6	4
	Charging Current	2A	2.5A
Power	Charging Voltage	9 V	4.35 V
	Input Voltage	19 V	19 V
		Green: full	Green: full
LED Indicators		Amber: charging	Amber: charging
		Red: error	Red: error
Mechanical	Dimensions (W x D x H)	387 x 269 x 49 mm/15.23 x 10.59 x 1.92 in	144 x 155 x 39 mm/5.66 x 6.10 x 1.53 in
ivieciiatiicai	Weight	1.98 kg/4.36 lb	0.48 kg/1.05 lb
	Operating Temperature	0 ~ 40 °C/32 ~ 104 °F	0 ~ 40 °C/32 ~ 104 °F
Environment	Storage Temperature	-10 ~ 50 °C/14 ~ 122 °F	-10 ~ 50 °C/14 ~ 122 °F
	Safety	UL, CB, LVD, CCC, RCM	UL, CB, LVD, CCC, RCM
	Certifications	CE, FCC, CCC, RCM, BSMI	CE, FCC, CCC, RCM, BSMI



Ordering Information

Part Number	Description
AIM-MTCS-0001	Multi-tablet charging station for AIM
AIM-MBCS-0001	Multi-battery charging station for AIM

Packing List

Item	AIM-MTCS-0001	AIM-MBCS-0001
1	1 x Multi-tablet charging station	1 x Multi-battery charging station
2	1 x AC/DC adaptor	1 x AC/DC adaptor

Note: The above products do not include a power cable. Customers must order them separately for the specific country of use.

Optional Adapter

Model	Part Number	Description
AIM-MTCS-0001	96PSA-A120W19V1	Adaptor A/D 100 ~ 240V, 120W, 19V, C6 DC jack
AIM-MBCS-0001	96PSA-A65W19V1-3	Adaptor A/D 100 ~ 240V, 65W, 19V, C6 DC plug 180° 62368

Optional Power Cord

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Part Number	Description
1700001524	Power cable, UL, 3P, 10A, 125V, 180 cm (US)
1700008921	Power cable, PSE, 3P, 7A, 125V, 183 cm (Japan)
1700019146	Power cable, CCC, 3P, 10A, 125V, 183 cm (China)
1700018553	Power cable, SAA, 3P, 2.5A, 250V, 183 cm (Australia/NZ)
170203180A	Power cable, BSI, 3P, 2.5A, 250V, 183 cm (UK)
170203183C	Power cable, CE, 3P, 10A, 250V, 183 cm (EU)

AIM-55 Peripherals and Accessories

Extension Modules

Barcode scanner (20°)



Barcode scanner (70°)

LAN + COM module



Part Number	AIM-BCRS-0020	
Features	 Sensor: 640 x 480 CMOS sensor Illumination/Aimer: white LED illumination/red LED dot aimer Frame rate: 30 fps Field of view: horizontal: 37.8°; vertical: 28.8° 	:
Dimensions	130.2 x 38.7 x 27.8 mm/5.12 x 1.52 x 1.09 in	1
Weight	0.042 kg/0.092 lb	0

AIM-BCRS-0070

Sensor: 640 x 480 CMOS sensor
Illumination/Aimer: white LED illumination/
red LED dot aimer
Frame rate: 30 fps
Field of view: horizontal: 37.8°; vertical: 28.8°

130.2 x 38.7 x 32 mm/5.12 x 1.52 x 1.25 in
0.042 kg/0.092 lb

AIM-LANC-0001

1 x 10/100 Ethernet port
1 x COM port

Accessories









Part Number	AIM-SRP0-0000	AIM-SRP0-0001	AIM-SRP0-0002	AIM-BAT0-0252
Features	1 x Black strap 1 x Stylus holder	1 x Black strap 1 x Stylus holder	1 x Black strap 1 x Stylus holder	1 x Black battery with meter
Dimensions	240 x 20 mm/ 9.44 x 0.78 in	380 x 135 x 20 mm/ 14.96 x 5.31 x 0.78 in	1820 x 20 mm/ 71.65 x 0.78 in	120 x 87 x 7.5 mm/ 4.72 x 3.43 x 0.30 in
Weight	0.022 kg/0.048 lb	0.05 kg/0.11 lb	0.05 kg/0.11 lb	0.147 kg/0.324 lb

Active stylus



Part Number	AIM-P704
Features	1 x Black stylus pen
Dimensions	140 x 9.7 mm/5.51 x 0.38 in
Weight	0.02 kg/0.044 lb