AIM-78H

10.1" Medical Grade Tablet with Qualcomm® Snapdragon™ 660



DeviceOn/iService QUALCOMM

Features

- Equipped with DeviceOn/iService software for remote device management
- Qualcomm SDA660 with Android 10
- 10.1" Full-HD capacitive touch screen designed with scratch-resistant Corning® Gorilla® Glass
- Supports glove mode and stylus with palm detection to expand usability
- Integrated barcode scanner supports data collection
- Fast roaming and dual band WLAN , BT 5.0, NFC, connectivity for seamless communications
- Optional extension include 1D/2D barcode scanner, LAN+COM module, UHF RFID module

Introduction

The Medical Tablet AIM-78H is Android-based tablet computer designed for healthcare applications; features the slim enclosure with antimicrobial property and the integration of a brilliant 10.1" capacitive touch screen supporting both glove and stylus mode for multi-usability in healthcare environment. With the built-in high resolution camera and stable wireless communication , the AIM-78H is a Telehealth-Capable device acting as an effective tool to monitor, record and retrieve patient information while inward and outdoor healthcare service.

Moreover, AIM-78H 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	Qualcomm SDA660 /SDM660 (up to 2.2GHz)
	Memory	4 GB LPDDR4x
	OS	Android 10
Storage	eMMC	64 GB
	Micro-SD	Support (up to 2TB)
Display	Type	10.1" FHD LCD
	Resolution	WUXGA 1920 x 1200
	Brightness	380 cd/m²
	Touch Type	10-point multi-touch P-CAP touch control
	Glass Type	Corning® Gorilla® Glass 3
Communication	WLAN	IEEE 802.11 a/b/g/n/ac/k/v/r
	Bluetooth	Bluetooth® v5.0 + BLE
	NFC	13.56 MHz, compatible with ISO15693, ISO14443A, ISO 14443B, FeliCa
Connectivity	Standard I/O	1 x USB3.1 Type C supporting data transmission only*, 1x USB 2.0 Type A,1x Combo audio jack, 1 x 19 VDC-in jack, 1 x SIM card reader, 1 x micro SD card
	Extended I/O	1 x AIM extension 14-pin pogo connector: 1 x USB 2.0, 1 x 2-wire UART, 5V/1A power
	Docking	1 x AIM docking 16-pin pogo connector: 1 x USB 3.0, 12V power
	Speaker	2 x Internal speakers (2 W)
Audio	Audio Jack	1 x Audio combo jack (combines stereo audio output and mono microphone input)
Camera	Front	8.0-megapixel fixed-focus camera
	Rear	13.0-megapixel aufo-focus camera with LED flash
Sensors		Ambient Light Sensor, e-Compass, G-sensor, Gyroscope
Barcode Scanner(Optional)		Integrated 1D/2D barcode scanner (optional)
Control Buttons		1 x Power button, 2 x volume keys (up/down), 1 x programmable function key
System Indicator		Full: green (100%); Charging: blue; Low: red (≤10%)
Power System	Input Voltage	DC jack: 19V/3.43A Docking pogo: 12V/2A
	Battery	Smart battery with capacity LED indicators; 10.8V, 2400 mAh, 26 WHr Operating time: Approximately 6 hr (depending on usage scenario) Charging time: < 3 hr

All product specifications are subject to change without notice.

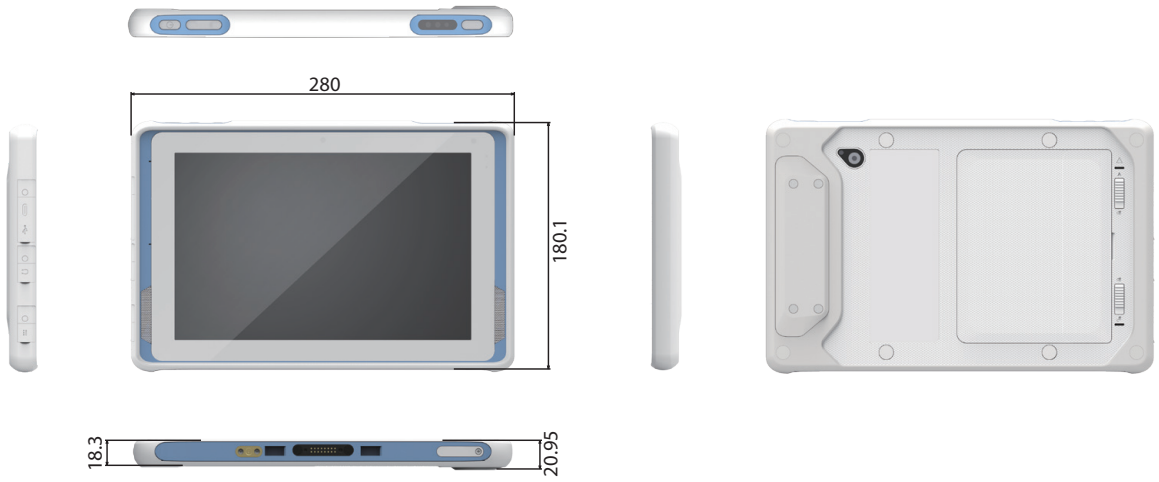
Specifications (Cont.)

Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)
	Storage Temperature	-20 ~ 60 °C (-4 ~ 140°F)
	IP Rating	IP65
	Shock	Operating: 10 ~ 20 G, 11 ms; Non-operating: 50 G ,11 ms
	Vibration	Operating: (5 ~ 500 Hz) 0.5 ~ 1 G; Non-operating: (5 ~ 500 Hz) 0.04 PSD
	Humidity	Operating: 10 ~ 90% @ 40 °C non-condensing Storage: 10 ~ 95% non-condensing
	Drop Tested	Up to 120 cm (4 ft) onto plywood over concrete
Physical Characteristics	Dimension (W x D x H)	280 x 18.3 x 180.1 mm (11 x 0.7 x 7.1 in)
	Weight	980 g (2.2 lb)
	Color	White Blue
Certifications		IEC/UL/EN 60601-1, FCC/IC, CE, NCC/BSMI, TELEC/VCCI, RCM, CCC/SRRC
DeviceOn/iService Remote Device Management	Operating System	Android 10
	Common Controls (Reboot, Shutdown)	V
	Device-Specific Controls (Audio, Backlight)	V
	Connection Status	V
	Hardware Status	V*
	Batch Operation Support	V
	OTA Storage Management	Local blob
	APP OTA Updates	V
	Software Watchlist	V
	Software Start/Stop	V
** Dependant on device model	Peripherals Watchlist	V*

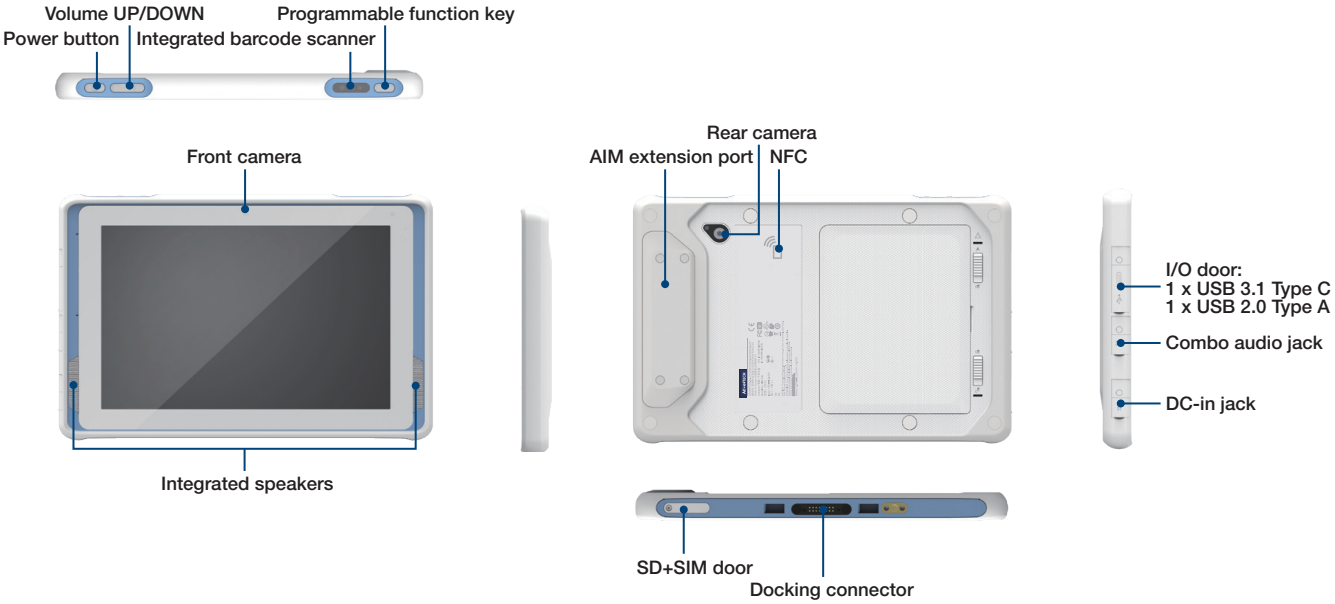
* USB 3.0 Type-C will be disabled while the AIM-78H is in the docking mode
** DeviceOn/iService software must be downloaded from the Advantech website at https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility

Dimensions

Unit: mm



Front/Rear/Side I/O View



Ordering Information

Part Number	Memory/Storage	Front/Rear Camera	Wi-Fi/BT	Built In Barcode	NFC
AIM-78H-200S00	4GB/64GB	✓	✓		✓
AIM-78H-200B00	4GB/64GB	✓	✓	✓	✓

Optional Accessories

Part Number	Description
XAIM-FSP065-DBCM1	Adapter A/D 100-240V 65W 19V C8 DC JACK MEDICAL
1700029083-01	Power cable, UL, 2P, 10A, 125V, 112 cm (US)
1700001949	Power Cord(UK) BSI 2P 2.5A 250V 183cm
1700029278-01	Power Cord (Japan) PSE 2P 7A 125V 183cm
1700029279-01	Power Cord (NZ/AU) SAA 2P 2.5A 250V 183 cm
1700008972	Power cord (China)CCC 2P 2.5A 250 V 183 cm
1700001948-11	Power cord (EU) EU 2P 2.5A 250 V 183 cm
1700021662-01	Power Cord (TW) BSMI 2P 2.5A 125V 183cm

Note: Adapter and power cord are suitable for AIM-78 VESA and office dock.

Packing List

Description
1 x AIM-78H
1 x AC/DC adapter
1 x 2-pin power cable (US)

For sales inquiries or further information, please contact us at Mobile@advantech.com.tw

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

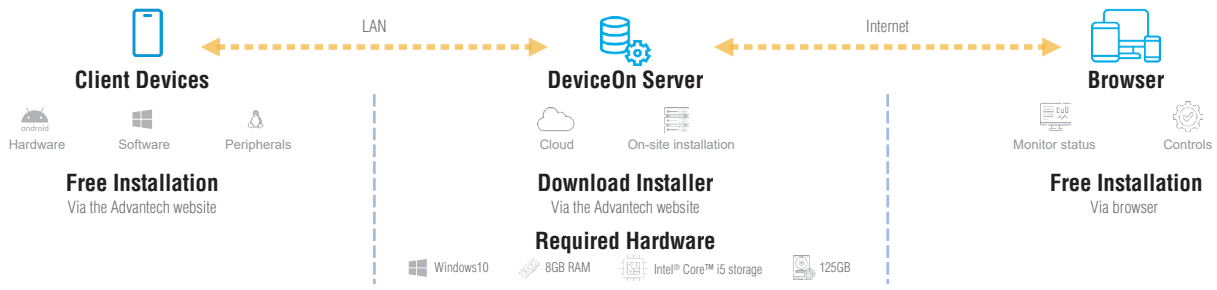
OTA updates
- System/software updates
- File repository management
- App store

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

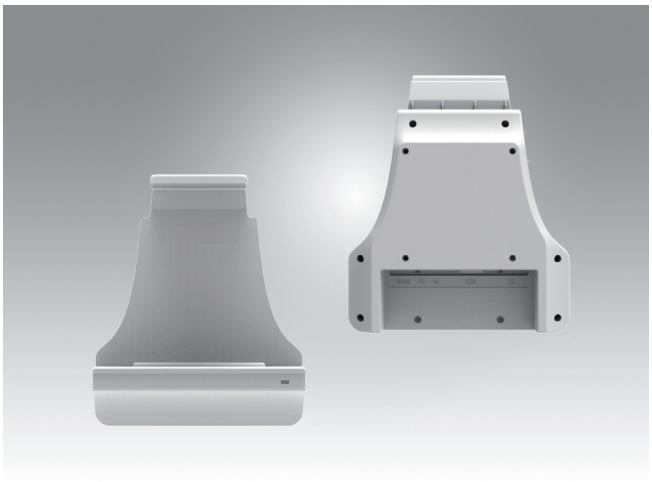
Setup Booster
- Software/peripheral watchlist
- Roles, rule templates

Note: Some functions may vary according to the product

System Architecture



AIM-78H VESA Docking Station



Features

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

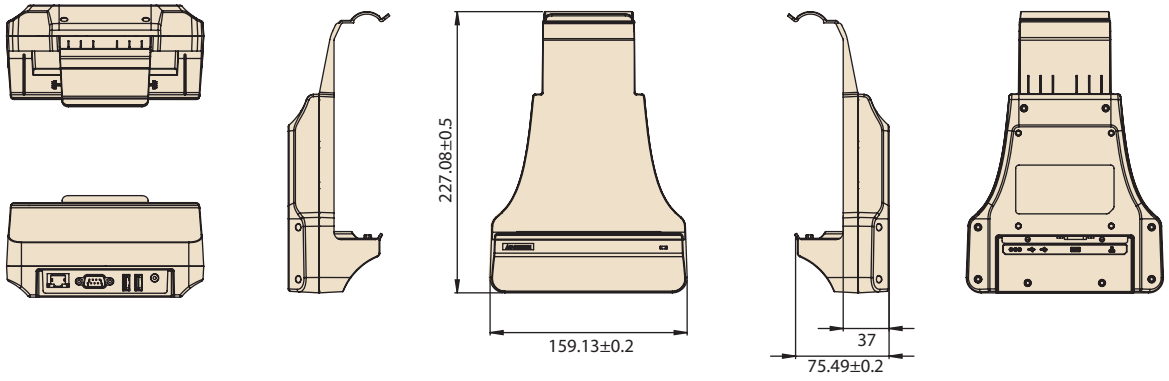
CE FCC

Specifications

		Advanced VESA Docking Station	VESA Docking Station with USB
I/O		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		N/A	N/A
Power	Input Voltage	9 ~ 32 V	19 V
Mechanical	Dimensions (W x D x H)	159.13 x 75.49 x 227 mm (6.3 x 2.9 x 8.9 in)	159.13 x 75.49 x 227 mm (6.3 x 2.9 x 8.9 in)
	Weight	0.33 kg (0.72 lb)	0.32 kg (0.71 lb)
Environment	Operating Temperature	-10 ~ 50 °C (14 ~122 °F); 0 ~ 40 °C (32 ~104 °F) for charging	-10 ~ 50 °C (14 ~122 °F); 0 ~ 40 °C (32 ~104 °F) for charging
	Storage Temperature	-20 ~ 70 °C (-4 ~ 158 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
	Safety	UL, CB, LVD, CCC	UL, CB, LVD, CCC
	Certifications	CE, FCC, CCC	CE, FCC, CCC

Dimensions

Unit: mm



Ordering Information

Part Number	Description
AIM-VSD0-1001	AIM 10 advanced VESA docking station
AIM-VSD0-1003	AIM 10 VESA docking station with USB

Packing List

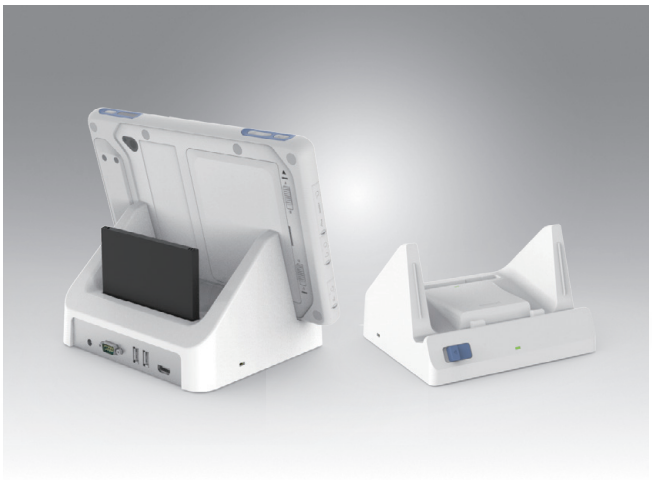
Item	AIM-VSD0-1001	AIM-VSD0-1003
1	1 x VESA Dock(Advanced I/O)	1 x Vehicle Dock (Charging & USB Only)

Note: The packing list doesn't Include adapter and power cord. Please order based on following PNs.

Optional Accessories

Part Number	Description
XAIM-FSP065-DBCM1	Adapter A/D 100-240V 65W 19V C8 DC JACK MEDICAL
1700029083-01	Power cable, UL, 2P, 10A, 125V, 112 cm (US)
1700001949	Power Cord(UK) BSI 2P 2.5A 250V 183cm
1700029278-01	Power Cord (Japan) PSE 2P 7A 125V 183cm
1700029279-01	Power Cord (NZ/AU) SAA 2P 2.5A 250V 183 cm
1700008972	Power cord (China)CCC 2P 2.5A 250 V 183 cm
1700001948-11	Power cord (EU) EU 2P 2.5A 250 V 183 cm
1700021662-01	Power Cord (TW) BSMI 2P 2.5A 125V 183cm

AIM-78H Desk Docking Station



Features

- -10 ~ 50 °C (14 ~122 °F) operating temperature
- Reliable docking connector for office applications

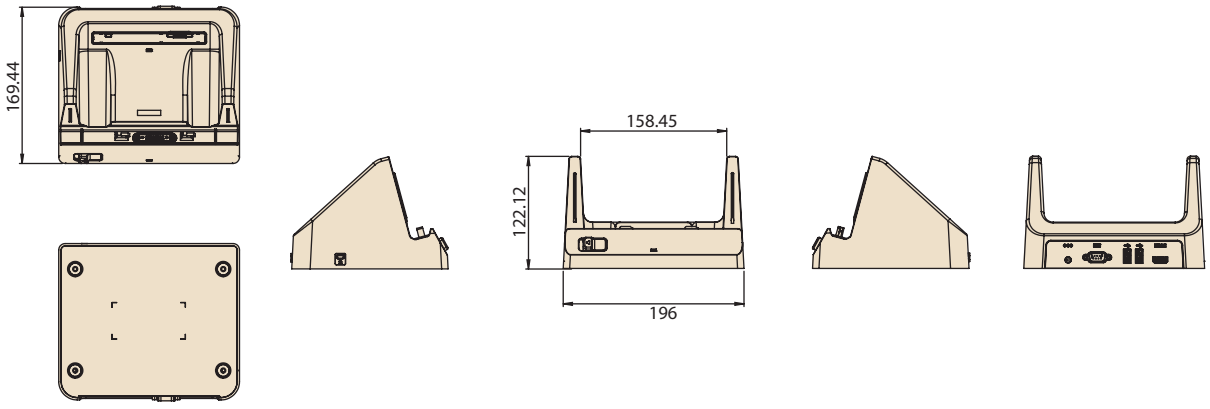
CE FCC

Specifications

		Advanced Desk Docking Station	Desk Docking Station with USB
I/O		2 x USB 2.0 1 x RS-232 COM 1 x Power jack 1 x HDMI 1 x Battery charging bay	2 x USB 2.0 1 x Power jack
Power	Input Voltage	19 V	19 V
Mechanical	Dimensions (W x D x H)	196 x 169.44 x 122.12 mm (7.72 x 6.67 x 4.81 in)	196 x 169.44 x 122.12 mm (7.72 x 6.67 x 4.81 in)
	Weight	0.76 kg (1.68 lb)	0.75 kg (1.65 lb)
Environment	Operating Temperature	-10 ~ 50 °C (14 ~122 °F); 0 ~ 40 °C (32 ~104 °F) for charging	-10 ~ 50 °C (14 ~122 °F); 0 ~ 40 °C (32 ~104 °F) for charging
	Storage Temperature	-20 ~ 70 °C (-4 ~ 158 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
	Safety	CE, FCC, CCC	UL, CB, LVD, CCC
	Certifications	UL, CB, LVD, CCC	CE, FCC, CCC

Dimensions

Unit: mm



Ordering Information

Part Number	Description
AIM-OFD0-0001	AIM 10 advanced desk dock station
AIM-OFD0-0003	AIM 10 desk dock station with USB

Packing List

Item	AIM-OFD0-0001	AIM-OFD0-0003
1	1 x Office Dock(Advanced I/O)	1 x Office Dock (Charging & USB Only)

Note: The packing list doesn't Include adapter and power cord. Please order based on following PNs.

Optional Accessories

Part Number	Description
XAIM-FSP065-DBCM1	Adapter A/D 100-240V 65W 19V C8 DC JACK MEDICAL
1700029083-01	Power cable, UL, 2P, 10A, 125V, 112 cm (US)
1700001949	Power Cord(UK) BSI 2P 2.5A 250V 183cm
1700029278-01	Power Cord (Japan) PSE 2P 7A 125V 183cm
1700029279-01	Power Cord (NZ/AU) SAA 2P 2.5A 250V 183 cm
1700008972	Power cord (China)CCC 2P 2.5A 250 V 183 cm
1700001948-11	Power cord (EU) EU 2P 2.5A 250 V 183 cm
1700021662-01	Power Cord (TW) BSMI 2P 2.5A 125V 183cm

AIM-78H Vehicle Docking Station



Features

- Compatible with 9 ~ 32 V_{DC} in-vehicle power supply
- Easy and instant single-handed docking and undocking
- Anti-theft locking mechanism
- External GPS antenna
- Programmable function keys
- High-density connectors
- Compliant with SAE J1455 for vibration and shock tolerance
- Safe and reliable design for vehicle applications

CE FCC

Specifications

		Fully Configured Unit	Charging Dock Only
I/O	High-Density Connector	1 x CAN bus (supports raw CAN, J1939, OBD-II/ISO 15765) with configurable firmware 5 x Digital inputs 1 x Odometer (supports dry and wet contact) with configurable and switchable firmware (default wet contact) 2 x Digital outputs (supports speed pulse) 1 x RS-232 (4 wire) 1 x RS-232/485 (2 wire) (default RS-485, termination enabled) 1 x USB 2.0 1 x Power input 12 V 1 A	1 x Power input 12 V 1A
GPS	GPS Extended	1 x External GPS antenna	N/A
Function Keys		5 x Programmable function keys	N/A
Key Lock		Anti-theft key lock (key can be removed)	N/A
Power	Input Voltage	Supports 12/24 V vehicle power (9 ~ 32 V_{DC} input range)	
Mechanical	Dimensions (W x D x H)	226 x 83.08 x 250.24 mm (8.9 x 3.27 x 9.9 in)	
	Weight	0.77 kg (1.70 lb)	
Environment	Operating Temperature	-10 ~ 50 °C (14 ~ 122 °F); 0 ~ 40 °C (32 ~ 104 °F) for charging	
	Storage Temperature	-30 ~ 80 °C (-22 ~ 176 °F)	
	IP Rating	IP54	
	Vibration/Shock	SAE J1455	
	Safety	UL, CB, LVD, CCC	
	Vehicle Power Regulation	E-Mark, ISO7637-2	
	Certifications	CE, FCC, CCC	

Ordering Information

Part Number	Description
AIM-VED0-0422	AIM vehicle docking station (full configuration)
AIM-VED0-0423	AIM vehicle docking station (charging only)
1700026766-01	High-density cable
PWS-770-GPSAN00E	External GPS antenna
1700027666-01	Vehicle power cable (In-house engineer testing only)
1700027665-01	Vehicle power cable (vehicle battery)

Packing List

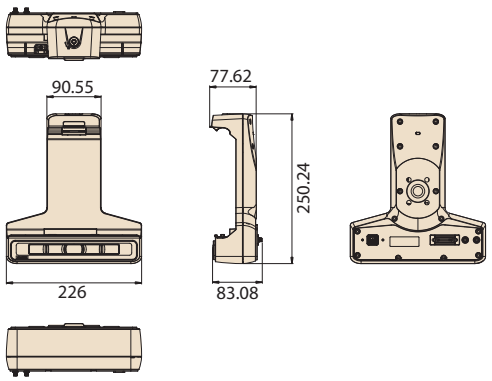
Item	AIM-VED0-0422	AIM-VED0-0423
1	1 x Vehicle Dock(Fully I/O)	1 x Vehicle Dock (Charging Only)
2	1 x Vehicle power cable (vehicle battery)	1 x Vehicle power cable (vehicle battery)

Optional Accessory

Part Number	Description
RAM-MOUNT-07E	AMPS mount w/VESA base, 1.5" ball

Dimensions

Unit: mm



AIM Muti-Battery Charging Station



Features

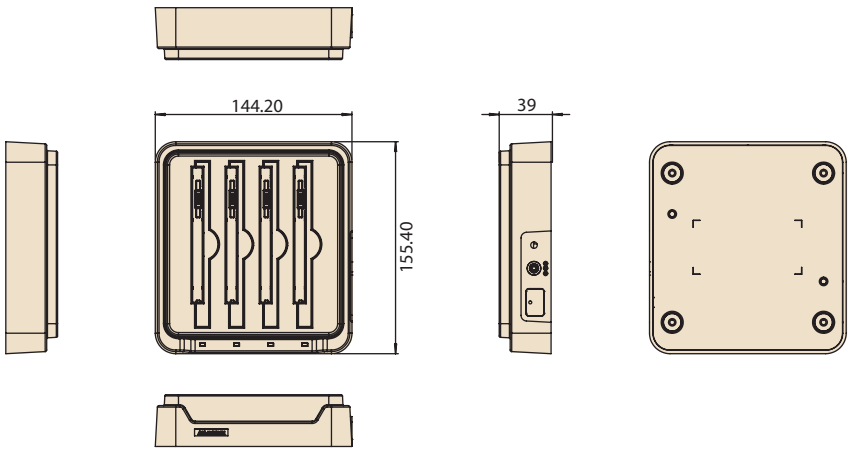
- Supports charging of up to 4 batteries simultaneously
- Overcurrent and overvoltage protection provided
- LED indicators for monitoring charging status

Specifications

		Multi-Battery Charging Station for AIM
Capacity	Number of Bays	4
Power	Charging Current	1 A
	Charging Voltage	12.6 V
	Input Voltage	19 V
LED Indicators		Green: Full Amber: Charging Red: Error
Mechanical	Dimensions (W x D x H)	144 x 155 x 39 mm (5.7 x 6.1 x 1.5 in)
	Weight	0.48 kg (1.05 lb)
Environment	Operating Temperature	0 ~ 40 °C (32 ~104 °F)
	Storage Temperature	-10 ~ 50 °C (14 ~ 122 °F)
	Safety	UL, CB, LVD, CCC, RCM
	Certifications	CE, FCC, CCC, RCM, BSMI

Dimensions

Unit: mm



Ordering Information

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

Packing List

Item	AIM-MBCS-0001
1	1 x Multi Battery Charger
2	1 x AC/DC adaptor

Note: The packing list doesn't Include power cord. Please order based on following PNs.

Optional Accessories

Part Number	Description
96PSA-A65W19V1-3	ADP A/D 100-240V 65W 19V C6 DC PLUG 180° 62368
1700001524	Power cord (USA) UL 3P 10A 125V 183 cm
1700008921	Power cord (Japan) PSE 3P 7A 125V 183 cm
1700019146	Power cord (China) CCC 3P 10A 250V 183 cm
1700018553	Power cord (NZ/AU) SAA 3P 10A 250V 183 cm
170203180A	Power cord (UK) BSI 3P 10A 250V 183 cm
170203183C	Power cord (EU) 3P 2.5A 250V 183 cm

AIM-78H Extensions and Accessories

Extension Modules

Barcode Scanner (20°)



Barcode Scanner (70°)



Part Number	AIM-BCRS-0020	AIM-BCRS-0070
Features	▪ Sensor: 640 x 480 CMOS sensor ▪ Illumination & Aiming: White LED illuminatoin/Red LED dot aimer ▪ Frame rate: 30 fps ▪ Field of view: Horizontal: 37.8°; Vertical: 28.8°	▪ Sensor: 640 x 480 CMOS sensor ▪ Illumination & Aiming: White LED illuminatoin/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)	130.2 x 38.7 x 32 mm (5.12 x 1.52 x 1.25 in)
Weight	0.042 kg (0.092 lb)	0.042 kg (0.092 lb)

Accessories

Hand Strap



Shoulder Strap (Portrait)



Shoulder Strap (Landscape)



Battery with Meter



Part Number	AIM-SRP0-0000	AIM-SRP0-0001	AIM-SRP0-0002	AIM-BATO-0452
Features	Black With one stylus holder	Black With one stylus holder	Black With one stylus holder	Black
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	Black
Dimensions	140 x 9.7 mm (5.51 x 0.38 in)
Weight	0.02 kg (0.044 lb)