AIM-38

10.1" Industrial Tablet for Retail Application Powered by Intel® Atom™ Processor

Features

- Equipped with DeviceOn/iService software for remote device management
- Intel® Atom™ processor for Windows 10 IoT & Android 6.0 operating systems
- 10.1" WUXGA full HD display with scratch-resistant Corning® Gorilla® Glass 3 and multi-touch PCAP control
- WLAN, BT, NFC & 4G LTE technologies for seamless communication
- Optional docking stations include vehicle, VESA, and desk docking stations
- Optional extension modules such as 1D/2D barcode scanners and LAN+COM module
- Optional accessories include the stylus, hand strap, and shoulder strap
- Additional modules and accessories can be customized according to application requirements

DeviceOn/iService

Introduction

AIM-38 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.
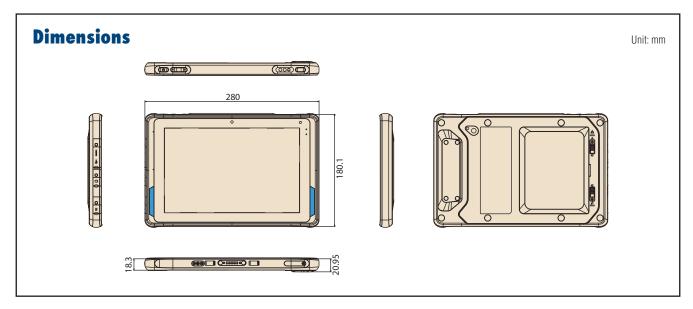
Specifications

System	Processor	Intel® Atom™ x7-Z8750 quad-core, 1.6 Ghz (2M cache, up to 2.56 Ghz)
	Memory	4 GB LPDDR3 (up to 8 GB)
	OS	Windows 10 IoT Enterprise, AIM Android 6.0
Storage	eMMC	64 GB default (up to 128 GB)
Display	Type	10.1" FHD LCD
	Resolution	WUXGA 1920 x 1200
	Brightness	380/800cd/m² (optional)
Touch Panel	Construction	10-Point P-CAP multiple touch Corning® Gorilla® Glass 3
Audio	Speaker	2 x internal speaker(2W)
	Audio Jack	1 x audio combo jack, Combination of stereo audio output and mono microphone input
Camera	Front	2.0-megapixel auto-focus camera
	Rear	5.0-megapixel auto-focus camera with LED flash
Sensors		Ambient Light Sensor, G-sensor / eCompass
Barcode Scanner	Barcode Scanner (Optional)	Integrated 1D/2D barcode scanner
I/O Interface	Standard I/O	1 x Micro HDMI, 1 x USB 3.0, 1 x Combo audio jack, 1 x 19 Vdc-in jack, 1 x SIM card reader, 1 x Micro SD card reader
	Extended I/O	1 x AIM module pogo pin connector at rear, supporting AIM extension modules
	Docking	1 x 16 pin pogo pin connector
	Buttons	1 x Power button, 2 x Volume keys (Up/Down), 1 x Programmable key
	LED Indicator	Full: Green (100%), Charging: Blue, Low: Red (≤10%)
Wireless Communication	WLAN/Bluetooth	IEEE 802.11a/b/g/n/ac, Bluetooth® v4.1
	WWAN (Optional)	4G LTE module with AGPS
	NFC	13.56 MHz
GNSS	Satellite System (Optional)	Standalone GPS supports GLONASS, Beidou
Power System	Power Adapter	Input: 100-240 V ~ 1.5 A 50/60 Hz, Output: 19 V, Max.65 W
	Battery	Hot-swappable smart battery with capacity LED indicators. Capacity: 26 WHr Operating time: Approx. 5.5hrs
Mechanical	Dimensions (W x D x H)	280 x 18.3 x 180.1 mm (11 x 0.7 x 7.1 in)
	Weight	Approx. 980 g (2.2 lb)
Environment	Operating Temperature	-10 ~ 50 °C (14 ~ 122 °F)
	Storage Temperature	-20 ~ 70 °C (-4 ~ 158 °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
	Altitude	Operating: sea level 0 to 3048m (10k ft), Storage: sea level 0 to 12192m (40k ft)
	Drop Tested	Up to 120cm (4 ft) on to plywood over concrete
	Certifications/Safety/EMC	CE, CB, VCCI, UL60950 (ITE), UL2054, UN38.3, IEC62133, PSE for battery pack, FCC ID/PTCRB/R&TTE/SRRC/TELEC, FCC15 Class B, CE Mark (DOC Class B), REACH, RoHS

*: Battery operation and recharge time vary based on various factors, including screen brightness, applications, features, power management, battery condition and other customer preferred settings. Testing method: JEITA 2.0
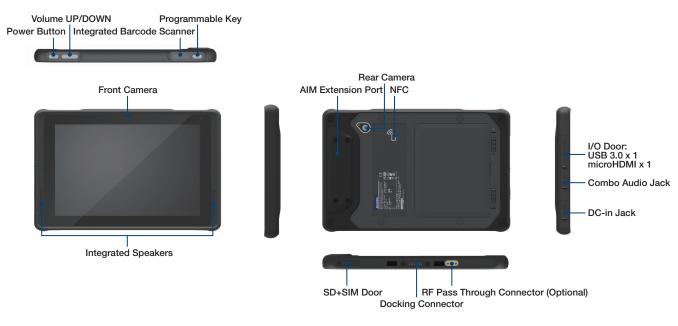
Specifications (Cont.)

		Windows 10	Android 6
	Operating System	Windows 10	Android 6
	Common Controls (Reboot, Shutdown)	✓	✓
	Remote desktop	✓(VNC)	✓(VNC)
	Device-Specific Controls	Audio	Audio, Backlight
	Connection Status	✓*	✓
	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

Dimensions

Unit: mm

280

180.1

18.3

20.95

Front/Rear/Side I/O View

Volume UP/DOWN
Power Button   Integrated Barcode Scanner   Programmable Key

Front Camera

Rear Camera
AIM Extension Port   NFC

Integrated Speakers

I/O Door:
USB 3.0 x 1
microHDMI x 1

Combo Audio Jack

DC-in Jack

SD+SIM Door   RF Pass Through Connector (Optional)
Docking Connector

Ordering Information

| Part Number | Configurations | | | | | | | | | | |
	Color	CPU	Memory	Storage	LCD	NFC	Wi-Fi/BT	LTE+GPS	F-Cam	R-Cam	OS
AIM-38CT-C2101000	Black	Intel® CHT I Z8750	4 GB	64 GB	380 nits	V	V	X	2 MP	5 MP	Win 10 IoT Enterprise
AIM-38CT-C2103000	Black	Intel® CHT I Z8750	4 GB	64 GB	380 nits	V	V	V (NA)	2 MP	5 MP	Win 10 IoT Enterprise
AIM-38CT-C2105000	Black	Intel® CHT I Z8750	4 GB	64 GB	380 nits	V	V	V (EU)	2 MP	5 MP	Win 10 IoT Enterprise
AIM-38CT-C2104000	Black	Intel® CHT I Z8750	4 GB	64 GB	800 nits	V	V	V (NA)	2 MP	5 MP	Win 10 IoT Enterprise
AIM-38CT-C2106000	Black	Intel® CHT I Z8750	4 GB	64 GB	800 nits	V	V	V (EU)	2 MP	5 MP	Win 10 IoT Enterprise
AIM-38CT-C3101000	Black	Intel® CHT I Z8750	4 GB	64 GB	380 nits	V	V	X	2 MP	5 MP	Android 6.0
AIM-38CT-C3103000	Black	Intel® CHT I Z8750	4 GB	64 GB	380 nits	V	V	V (NA)	2 MP	5 MP	Android 6.0
AIM-38CT-C3105000	Black	Intel® CHT I Z8750	4 GB	64 GB	380 nits	V	V	V (EU)	2 MP	5 MP	Android 6.0
AIM-38CT-C3104000	Black	Intel® CHT I Z8750	4 GB	64 GB	800 nits	V	V	V (NA)	2 MP	5 MP	Android 6.0
AIM-38CT-C3106000	Black	Intel® CHT I Z8750	4 GB	64 GB	800 nits	V	V	V (EU)	2 MP	5 MP	Android 6.0

Optional Accessories

Part Number	Description
1700001947	Power Cord UL 2P 7A 125V 183cm
1700002141	Power Cord PSE 2P 7A 125V 183cm
1700008972	Power Cord CCC 2P 2.5A 250V 183cm
1700001948-11	Power Cord EU 2P 2.5A 250V 183cm

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

Client Devices	**DeviceOn Server**	**Browser**
Hardware	Cloud	Monitor status
Software	On-site installation	Controls
Peripherals		
Free Installation	**Download Installer**	**Free Installation**
Via the Advantech website	Via the Advantech website	Via browser

LAN · Internet

Required Hardware

Windows10 · 8GB RAM · Intel® Core™ i5 storage · 125GB

VESA Dock
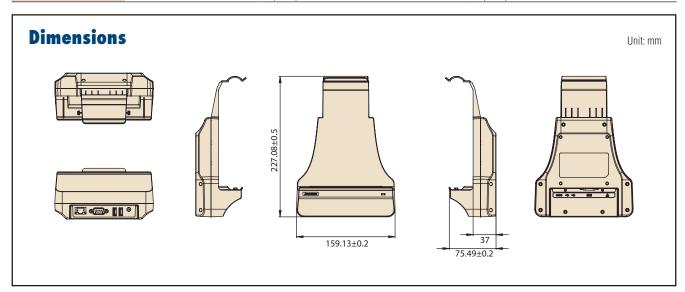
VESA Docking Station for AIM-38

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

		AIM 10 VESA Advanced Dock	AIM 10 VESA Dock with USB
I/O		2 x USB 3.0/2.0 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 – 32V	19V
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	0.282 kg (0.62 lb)	0.28 kg (0.61 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

227.08±0.5

159.13±0.2

37

75.49±0.2

Ordering Information

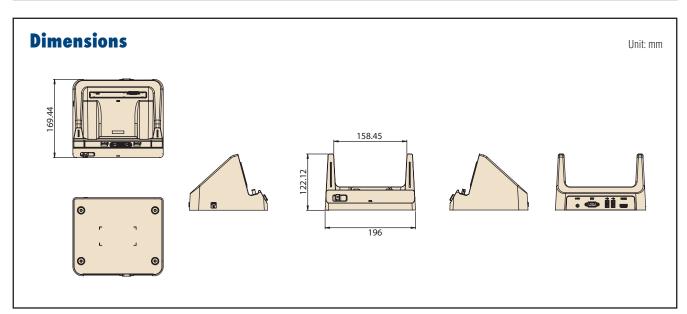| Part Number	Description
AIM-VSD0-0470	AIM 10 VESA Advanced Dock
AIM-VSD0-0471	AIM 10 VESA Dock with USB

Desk Dock

Desk Docking Station for AIM-38

Features

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

CE FCC CCC

Specifications

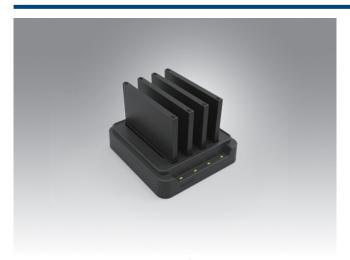|		AIM 10 Desk Advanced Docking Station	AIM 10 Desk Docking Station
I/O		2 x USB 2.0 1 x RS-232 COM 1 x Power jack 1 x HDMI	2 x USB 2.0 1 x Power jack
Power	Input Voltage	19V	19V
Mechanical	Dimensions (W x D x H)	196 x 169.44 x 122.12 mm (7.72 x 6.67 x 4.81 in)	196 x 169.44 x 122.12 mm (7.72 x 6.67 x 4.81 in)
	Weight	0.745 kg (1.64 lb)	0.73 kg (1.60 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

169.44

158.45

122.12

196

Ordering Information

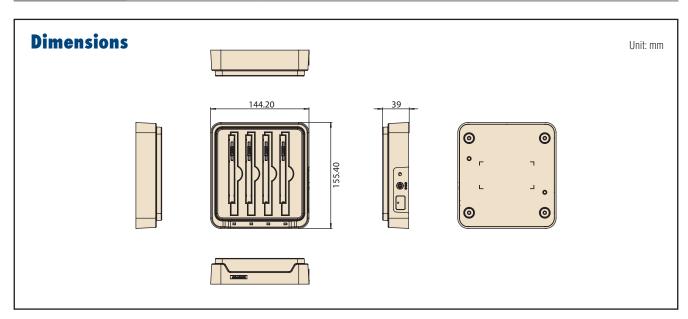| Part Number	Description
AIM-OFD0-0480	AIM 10 Desk Advanced Docking Station
AIM-OFD0-0481	AIM 10 Desk Docking Station

Multiple Charging Station

Features

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

Specifications

		Multi-Bay 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)	144.2 x 155.4 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

144.20

155.40

39

Ordering Information

Part Number	Description
AIM-MBC0-0051	Multi-Bay Charging Chation for AIM

AIM-38 Extensions and Accessories

Extension Modules

	Barcode Scanner (20°)	Barcode Scanner (70°)	LAN + COM Module	UHF RFID Reader
Part Number	AIM-P511A0	AIM-EXT0-0041	AIM-EXT0-0046	AIM-EXT0-0047 (EU)/ AIM-EXT0-0049 (US)
Color	Black	Black	Black	Black
Dimensions	130.2 x 38.7 x 27.8 mm (5.13 x 1.52 x 1.09 in)	130.2 x 38.7 x 32 mm (5.13 x 1.52 x 1.26 in)	130.2 x 70 x 29 mm (5.13 x 2.76 x 1.14 in)	130.2 x 70 x 45 mm (5.13 x 2.76 x 1.77 in)
Weight	0.042 kg (0.092 lb)	0.042 kg (0.092 lb)	0.078 kg (0.171 lb)	0.08 kg (0.176 lb)

Accessories

	Hand Strap	Shoulder Strap	Active Stylus	Battery with Meter
Part Number	AIM-SRP0-0000	AIM-SRP0-0001	AIM-P704	AIM-BAT0-0452
Color	Black	Black	Black	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)	140 x 9.7 mm (5.51 x 0.38 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)	0.02 kg (0.044 lb)	0.147 kg (0.324 lb)