

AIM-77S

10.1" Service Industry Tablet for Retail, Hospitality, and Industrial Applications



Features

- Rockchip RK3568 with Android 12 OS
- 10.1" WXGA, Anti-Glare, Anti-Fingerprint LCD Display with Corning Gorilla Glass 3 scratch-resistant and multi-finger support touchscreen
- Support Wi-Fi 6E and Bluetooth 5.3 for lower latency, higher speed and larger capacity
- IP54 rating and 1.2m drop resistant(with rugged case)
- Optional embedded MSR / NFC / Barcode Scanner
- Optional magnet dockings for versatile expansion flexibility
- PD 3.0 Fast charging and long battery life for daily usage
- Intelligent Power Delivery design for longer battery lifespan in Stationary scenario.
- Equipped with DeviceOn/iService software for remote device management



Introduction

AIM-77S is a 10.1" Android OS industrial grade tablet for Service Industry, such as Retail, Hospitality, and Manufacturing. The highly integrated design with optional features of MSR / NFC / Barcode Scanner, and the expansion flexibility via versatile dockings with USB3.0, RJ45(Ethernet), RJ48(COM Port), RJ11(Cash drawer), make AIM-77S be the ideal choice for service industry applications. In addition, the optimized power delivery design, various accessories, and easy-to-clean/place/remove magnetic expansion port design allow the AIM-77S to achieve good balance between Mobility and Stationary.

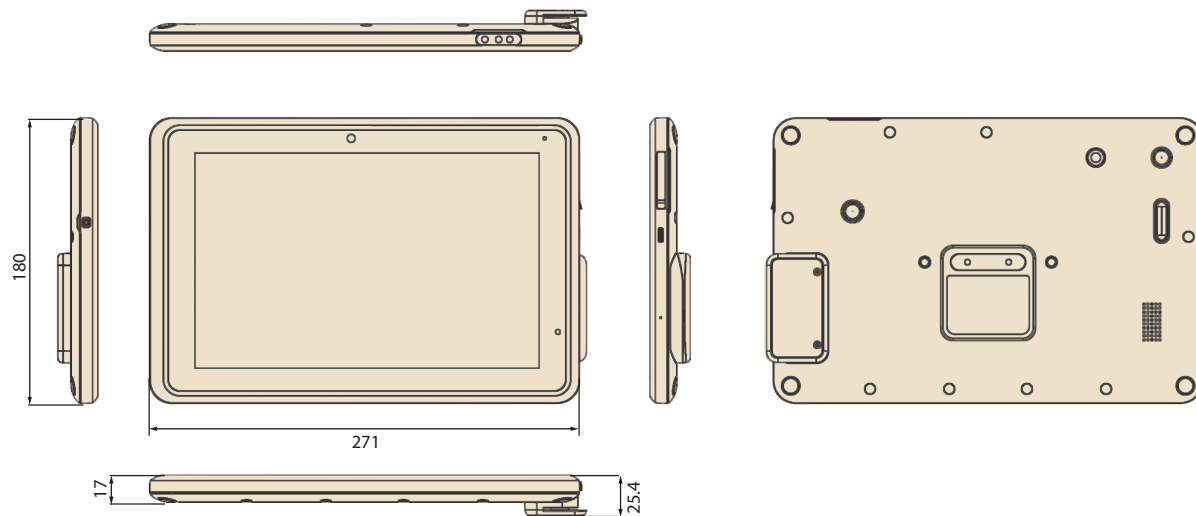
Specifications

System	Processor	Rockchip RK3568 (Quad-core Cortex-A55 up to 2.0GHz)
	Memory	4GB LPDDR4x (Optional: 8GB)
	OS	Android 12
Storage	eMMC	64GB eMMC5.1 (Optional: 128GB)
	microSD	Support (Up to 1TB)
Display	Type	10.1" IPS TFT LCD Panel
	Resolution	WXGA, 1280x800
	Brightness	350nits (LCM Typical)
	Touch Type	10-point multi-touch P-CAP touch control
	Glass Type	Corning Gorilla Glass 3
Communication	WLAN	Wi-Fi 6E, IEEE 802.11 a/b/g/n/ac/ax
	Bluetooth	Bluetooth® v5.3
	NFC (Optional)	13.56 MHz, compatible with ISO15693, ISO14443A, ISO 14443B, FeliCa
Connectivity	Standard I/O	1 x USB 3.0 Type C (for Charging and Data)
	Docking	1 x USB 3.0 16-pin Pogo Connector (for Charging and Data)
Audio	Speaker	1 x Internal Speaker (2W)
	Audio Jack	1 x Audio combo jack (combines stereo audio output and mono microphone input)
	Microphone	1 x Digital-Microphone
Camera	Front	5.0-megapixel fixed-focus camera
	Rear	8.0-megapixel auto-focus camera
Data Collection	Sensors	Ambient Light Sensor, G-sensor, Gyroscope + e-Compass, Hall Sensor
	Barcode Scanner (Optional)	Embedded 1D/2D Barcode Reader
	MSR (Optional)	Embedded 3 track MSR module
Control Buttons		1 x Power button, 1 x Volume key (Up & Down)
		1 x programmable function key (default: Barcode Scanner trigger)
System Indicator	Power/Battery LED	System Off: 100% (Green), Charging (Blue)
		System On: ≥ 81% (Green), Charging (Blue), ≤ 10% (Blinking Red)
Power System	Input Voltage	USB Type C: 45W PD3.0 15V/3A Docking (16pin Pogo): 45W 12V/3.75A
	Battery	Embedded Li-ion Polymer battery, 2S1P, 7.7V, 4440mAh (34.19Wh)
		Operating time: up to 8 hours (depending on user scenario) Charging time: 30mins to 50%, 2.5hrs to 100%
Environment	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
	IP Rating	IP54 (non-MSR SKU)
	Humidity	90% at 40°C (non-condensing)
	Drop Protection	75cm (with Rugged case: up to 120cm onto plywood)
Physical Characteristics	Dimension (W x D x H)	271 x 180 x 17 (mm)
	Weight	885g (non-MSR), 910g (MSR)
Certifications		FCC, CE, CB, UL, NCC, BSMI

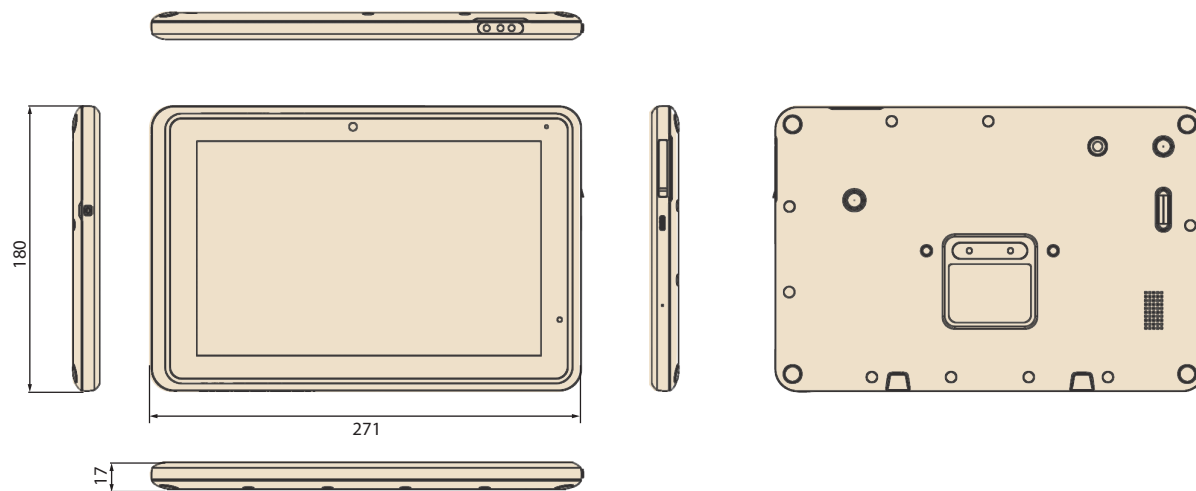
Dimensions

Unit: mm

AIM-77S-M (MSR SKU)

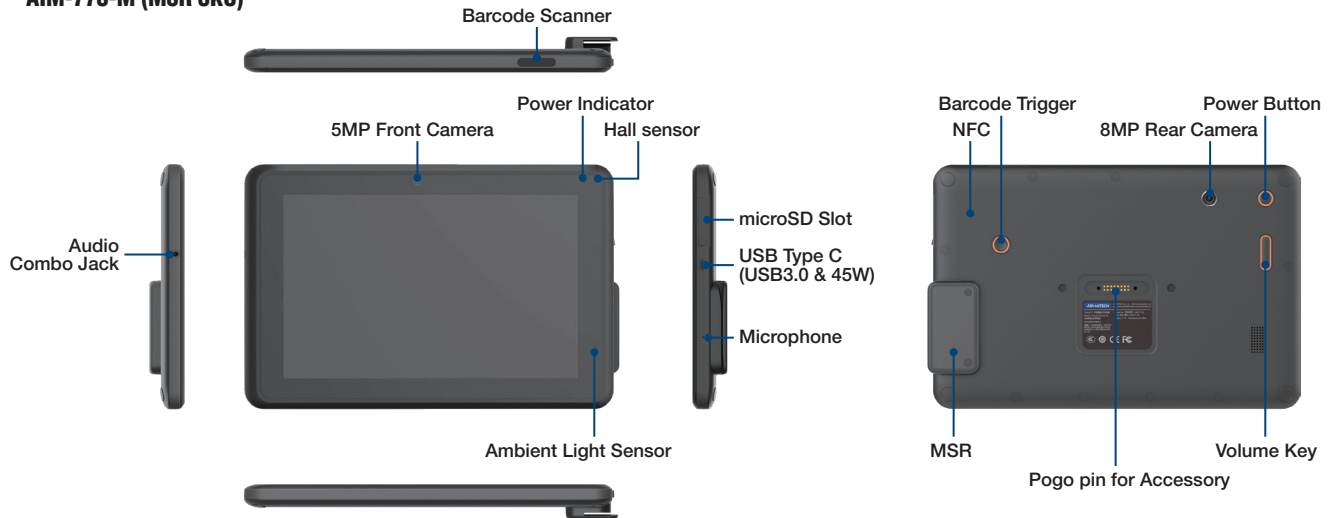


AIM-77S-S (non-MSR SKU)

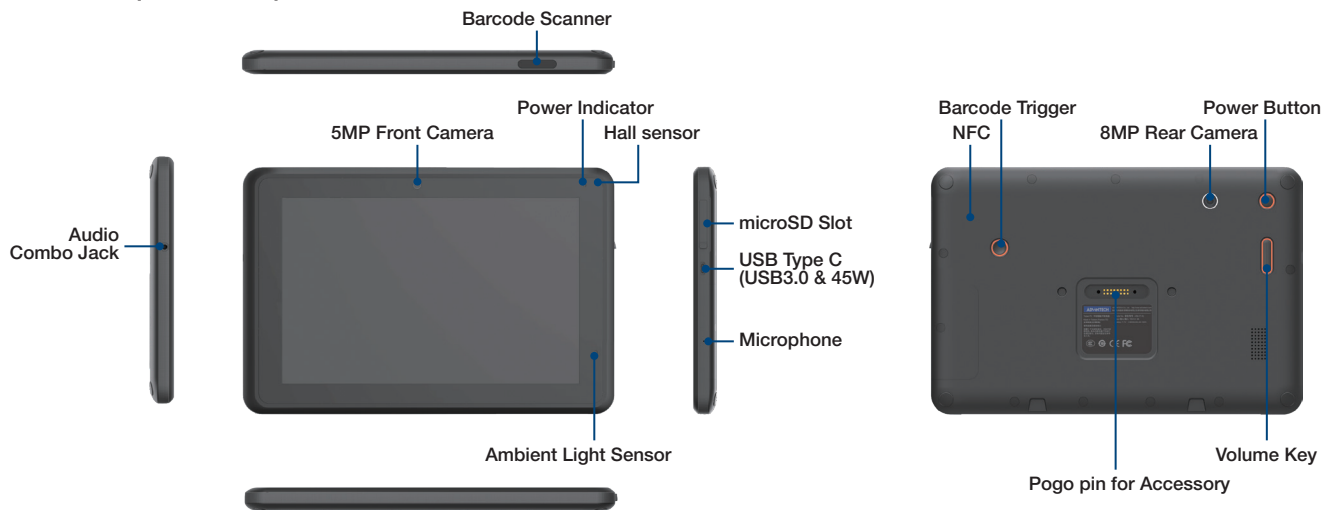


System I/O

AIM-77S-M (MSR SKU)



AIM-77S-S (non-MSR SKU)



Ordering Information

PN	OS	Memory/Storage	Front & Rear CAM.	MSR	NFC	BCR	ADP
AIM-77S-SW00000	Android 12	4GB/64GB	V		V	V	V
AIM-77S-SW01000	Android 12	4GB/64GB	V		V		V
AIM-77S-SW11000	Android 12	4GB/64GB	V				V

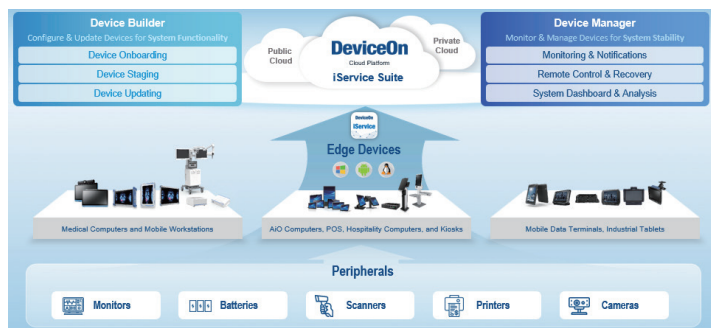
Optional Accessories

PN	Country	Description
1700024849-01	TW	Power Cord BSMI 3P 2.5A 125V 180cm
1700001524	US	Power Cord UL 3P 7A 125V 183cm
170203183C	EU	Power Cord EU 3P 2.5A 250V 183cm
1700008921	JP	Power Cord PSE 3P 7A 125V 183cm
1700018553	NZ/AU	Power Cord SAA 3P 2.5A 250V 183cm
170203180A-01	UK	Power Cord ASTA 3P 2.5A 250V 183cm
96PSA-A45WPDUCF	/	AIM-77S 45W PD3.0 Type C ADP

AIM-77S Packing List

Description
1 x AIM-77S Tablet
1 x Pin for microSD Card Slot
1 x 45W AC/DC Adapter
1 x TW BSMI C5 180cm Power Cord (1700024849-01)

DeviceOn - iService Suite



Introduction

Advantech's DeviceOn - iService Suite is an advanced remote device management solution that enables you to centrally manage your devices, minimizing the need for expensive on-site visits and saving your valuable time and resources. Device Builder ensures that your devices are always up-to-date with the latest configuration and software updates, reducing the risk of data breaches and other security threats. Meanwhile, Device Manager helps to ensure that your devices are functioning correctly, reducing downtime and enhancing productivity.

Key Functions

Device Builder



Device Onboarding

- Support Windows, Linux, Android devices
- Quick enrollment process



Device Staging

- OS configuration
- Software/peripheral watchlist
- Device label, alarm rules



Device Updating

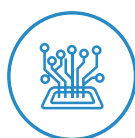
- Cloud software storage
- Installation package for multiple software updating

Device Manager



Monitoring & Notifications

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



Remote Control & Recovery

- Reboot & power controls
- Audio & backlight settings
- Screenshots & remote desktop



System Dashboard

- Devices working status
- Software version sync status
- Results of scheduled tasks

Services & Specifications

Functions List	OS Platform			Service Type	
	Windows	Android	Linux (Ubuntu)	Builder	Manager
	10, 11	8, 10, 12	TBD		
Device Onboarding - Enrollment, Locations and Labels	✓	✓		✓	✓
Profile - OS Settings (Kiosk Mode, ON/Off Schedule, others are OS dependent)	✓ (LTSC)	✓		✓	✓
Profile - Alarm Rules, Software Monitoring, Peripheral Monitoring	✓	✓			✓
OTA Update - Installation Packs, Software Cloud Storage	✓	✓		✓	✓
Monitoring - Device Hardware (CPU/RAM/Storage/Battery)	✓	✓			✓
Monitoring - Advanced Battery Management	✓ (Dependant on device model)				✓
Monitoring - Device Software (Running Status/CPU & Memory Usage)	✓	✓			✓
Monitoring - Peripherals & Display (Connect Status)	✓				✓
Control - Audio volume & Backlight	✓	✓			✓
Control - Screenshot, Reboot, Shutdown	✓	✓			✓
Control - Schedule Tasks	✓	✓			✓
Control - Remote Desktop	VNC				✓

Ordering Information

Ordering P/N	Cloud Type	Description
36CSDOISSASP01	SaaS subscription	DeviceOn - iService Suite device annual fee (365 days)
36CSDOISPSRP01	On-premise server	DeviceOn - iService Suite device license (perpetual)
36CSDOISPSRP02	On-premise server	Software and installation fee for new server deployment
36CSDOISPSRP03	On-premise server	Annual maintenance fee after warranty

AIM-77S 3" Bluetooth Thermal Printer Docking



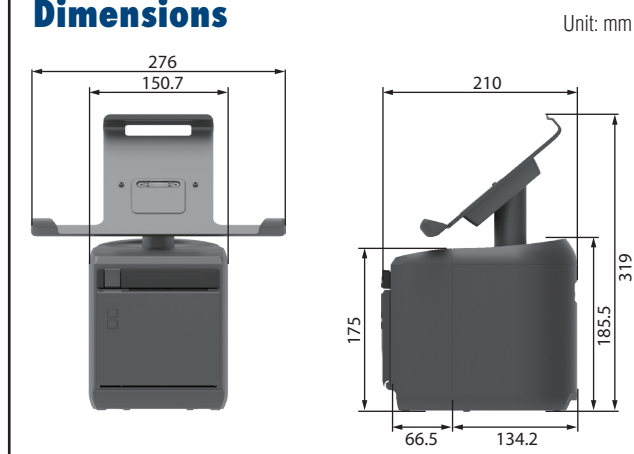
Features

- Reliable USB and Bluetooth printing connection
- Compatible with 80mm(3") or 58mm(2") paper roll
- High printing speed and Durable head and cutter lifetime
- Suitable for Mobile-POS, Self-checkouts or Ticketing user scenario
- Rich I/O for different scenario: USB3.0 x2, USB2.0 x1, RJ45(Ethernet) x1, RJ48(COM Port) x1 and RJ11(Cash drawer) x1

Specifications

		AIM-P701X (3" Bluetooth Thermal Printer Docking)
Software	Driver/SDK	Android 12 (w/ AIM-77S Tablet)
	Emulation	ECS/POS (EPSON)
Swivel	Angle	180° rotational
To Tablet	2x8 Pogo pin	max. 45W (12V, 3.75A), USB 3.0
Thermal Printer	Paper Width	80mm (3") or 58mm (2")
	Paper roll	83mm diameter
	Resolution	203dpi
	Printing speed	260mm/s
	Paper cutter	Auto Cut
	Buttons	Open Door, Feed Paper, Power
	LED Indicator	Power, Error, Paper Cut
	Interface	USB and Bluetooth
	Reliability	Head: 150km Cutter: 2,000,000 times
I/O Ports	Power & Data	1 x DC IN (180W, 24V/7.5A)
		2 x USB 3.0 Type A (bottom side)
		1 x USB 2.0 Type A (rear side)
		1 x RJ48 (COM)
		1 x RJ45 (Ethernet, 10/100/1000)
		1 x RJ11 (Cash Drawer, 24V)
Power Supply	DC-in Adapter	180W (AC100~240V, 24V, 7.5A)
Physical Characteristics	Dimension (W x D x H)	276 x 210 x 319 (mm)
	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
	Humidity	85% at 40°C (non-condensing)
	Weight	1400g

Dimensions



System I/O

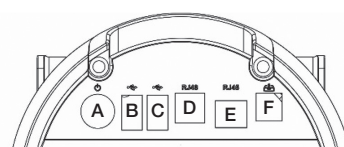


Ordering Information

Part Number	Description
AIM-P701X0-W	AIM-P701X, AIM-77 WW BT THERMAL PRINTER

AIM-P701X Packing List

Description
1 x Thermal Printer Docking
1 x RJ48 to D-SUB Cable
1 x 180W AC/DC Adapter
1 x Paper roll
1 x TW BSMI C5 180cm Power Cord (1700024849-01)



Bottom Side:

- (A) DC IN (24V-7.5A)
(B) USB 3.0 Type A
(C) USB 3.0 Type A

- (D) RJ48 (COM)
(E) RJ45 (Ethernet 10/100/1000)
(F) RJ11 (Cash Drawer)

AIM-77S Magnet Charging / Office Cradle



Features

- Reliable Data transportation and Power Supply to AIM-77S
- Suitable for Tableside Ordering in Restaurant or Stock-taking in Warehouse or In-shop Shelves.
- Rich I/O for different scenario: USB3.0 x2, USB2.0 x1, RJ45(Ethernet) x1, RJ48(COM Port) x1
- Easy-to-clean/place/remove magnetic expansion port design(okay to place on the tablet with rugged case, hand strap and shoulder strap)
- It's okay to place AIM-77S with rugged case, hand strap and shoulder strap on AIM-P708 Cradle

Specifications

AIM-77S Magnet Office Cradle		
Power System	Input	DC-in(4pin PW Din) 60W(12V/5A)
	Output	16pin(2x8) Pogo pin 45W(12V/3.75A)
Connectivity	I/O Port	USB3.0 Type A x2
		RJ45(1Gbps) x1 RJ48(COM) x1
Environment	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
	Humidity	90% @40°C (non-condensing)
Physical Characteristics	Dimensions (W x D x H)	150 x 142 x 130 (mm)
	Weight	964g

AIM-77S Magnet Charging Cradle		
Power System	Input	DC-in 60W 12V/5A (4pin PW Din)
	Output	16pin (2x8) Pogo pin 45W(12V/3.75A)
Connectivity	I/O Port	USB3.0 Type A x1
Environment	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
	Humidity	90% @40°C (non-condensing)
Physical Characteristics	Dimensions (W x D x H)	150 x 142 x 130 (mm)
	Weight	941g

Ordering Information

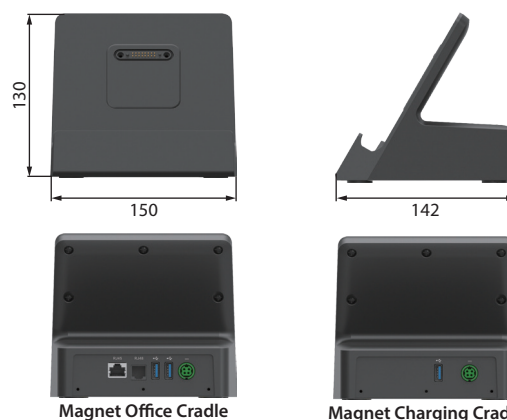
Part Number	Description
AIM-P70800	Magnet Office cradle for AIM-77S
AIM-P708M0	Magnet Charging cradle for AIM-77S

AIM-P708 Packing List

Description
1 x Magnet Office Cradle / 1 x Magnet Charging Cradle
1 x 60W AC/DC Adapter
1 x Bag of L-shaped iron sheet and screws for table fixation
1 x RJ48 to D-SUB Cable (Office Cradle only)
1 x TW BSMI C13 100cm Power Cord (1700031603-01)

Dimensions

Unit: mm



AIM-77S Rugged Case



Specifications

Environment	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
	Humidity	90% @40°C (non-condensing)
	Drop Protection	up to 120cm onto plywood
Physical Characteristics	Dimensions (W x D x H)	290.3 x 199.2 x 30 (mm)
	Weight	60g

Ordering Information

Part Number	Description
AIM-P70RA0	Rugged Case for AIM-77S

AIM-77S Hand Strap / Shoulder Strap



Specifications

Environment	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
	Humidity	90% @40°C (non-condensing)
Physical Characteristics	Dimensions (W x D x H)	Hand Strap: 5 x 21/43 (cm) Shoulder Strap: 3.5 x 80/155 (cm)
	Weight	Hand Strap: 33g Shoulder Strap: 96g

Ordering Information

Part Number	Description
AIM-P702A0	Hand Strap for AIM-77S (assembled on Rugged case)
AIM-P702B0	Shoulder Strap for AIM-77S (assembled on Rugged case)