HIT-W153

Innovative 15.6" Healthcare/Hospitality Information Terminal

DeviceOn/iService

Features

- Innovative and ultra-slim design for healthcare and hospitality applications
- All-in-one computer with Intel® Apollo Lake N4200 CPU
- Supports M.2 2230 WiFi / BT modules and M.2 2242 SSDs
- Supports RFID/NFC/Web Camera/Smart Card Reader
- Dual isolated Ethernet – Internet (for patients) and intranet (for hospitals) network traffic management and data security
- Supports nurse call button & LED indicator
- Rich optional peripherals – Handset / HDMI In/2nd Smart Card Reader, Barcode Scanner/PoE, RFID+HID
- Medical and ITE dual certification (EN 60601-1 & IEC 62368) to provide complete application coverage
- Win 10 IoT LTSC 2019, Android 10/12

Introduction

HIT-W153 is an innovative product in the HIT-series, featuring a 43mm thin body enclosure, USB 3.0, 5 megapixel camera, and dual isolated Ethernet, which lets hospitals separate and manage internal and external network traffic. The HIT-W153 also features a dedicated audio codec for our background noise-canceling handset to guarantee the best audio quality for calls to nurse stations. The available nurse call button and the LED indicator can be easily linked to existing nurse call systems in hospitals, and can be operated independently, even when the system is off. HIT-W153 is ideal for applications in hospitals, such as bedside information terminals, IP nurse call stations, and treatment centers. It can also be used as an HMI interface for medical equipment.

Moreover, HIT-W153 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

Hardware	CPU	Intel® Apollo Lake N4200 (2M Cache, up to 2.5 GHz)
	Memory	DDR3L x 1, up to 8GB (Default 4GB)
	Primary Storage	M.2 2242 SSD (Default 64GB)
	Camera	5MP CMOS
	Bus Expansion	Full Mini-PCIe x 1
Display	Size	15.6" W TFT LED
	Max Resolution	1920 x 1080
	Luminance	300 cd/m²
	Contrast Ratio	1000:1
Touchscreen	Type	Projected Capacitive
Front Button	Hotkey	Screen on/off Volume up Volume down Brightness up Brightness down Reading light LED Button
I/O Ports	USB 3.0	1 (Rear)
	USB 2.0	2
	Smart Card Reader	1 (Default), Optional 2nd reader
	RFID/NFC	1
	Audio Jack (TRRS)	1
	Handset Out(RJ12)-Hide in the left side	1
	Nurse Call Phoenix Port (4-pin)	1
	DC-in	1
	Nurse Call Bottom	1
Audio	Speaker	3 Watt x 2
	Internal Microphone	1
Network	LAN (Isolated)	Isolated RJ45 (10/100/1000 Mbit) x 2
	Bluetooth	BT 4.1 (Default Module)
	WLAN	802.11 a/b/g/n/ac (Default Module)
Software	OS	Win 10 IoT LTSC 2019, Android 10/12

Specifications (Cont.)

Mechanical	Mounting	VESA 75 x 75 mm & 100 x 100 mm
	Dimensions (W x H x D)	400.1 x 273 x 43 mm (15.8" x 10.7" x 1.7")
	Weight	Net Weight (w/o adapter): 7.05 lb, 3.2 kgs Gross Weight: 10.36 lb, 4.7 kgs
Option	2nd Smart Card Reader	Optional (Built-in Module)
	Handset	Optional (Add-on Module)
	Barcode Scanner	Optional (Bottom)
	PoE	Optional
Power Supply	AC/DC Adapter	
	Input Voltage	$100 - 240V_{AC}$, $1.1 - 0.45A$ @ $47 - 63Hz$
	Output Voltage	ITE/Medical 18 V_{DC}, 3.42A
Environment	Operating Temperature	$0 - 40°C$
	Vibration	1G
	Shock	10G Peak Acceleration (11ms duration)
	EMC & Safety Cert.	CE, FCC, CCC, CB, BSMI, UL ITE IEC 62368 compliance with IEC 60601-1

DeviceOn/iService Specifications

DeviceOn/iService Remote Device Management	Operating System	Windows 10	Android 12
	Common Controls (Reboot, Shutdown)	✓	✓
	Remote desktop	✓(VNC)	✓(VNC)
	Device-Specific Controls (Audio, Backlight)	✓*	✓*
	Connection Status	✓	✓
	Hardware Status	✓*	✓*
	Hard Disk Status	✓*	
	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

400.10

273.00

43.00
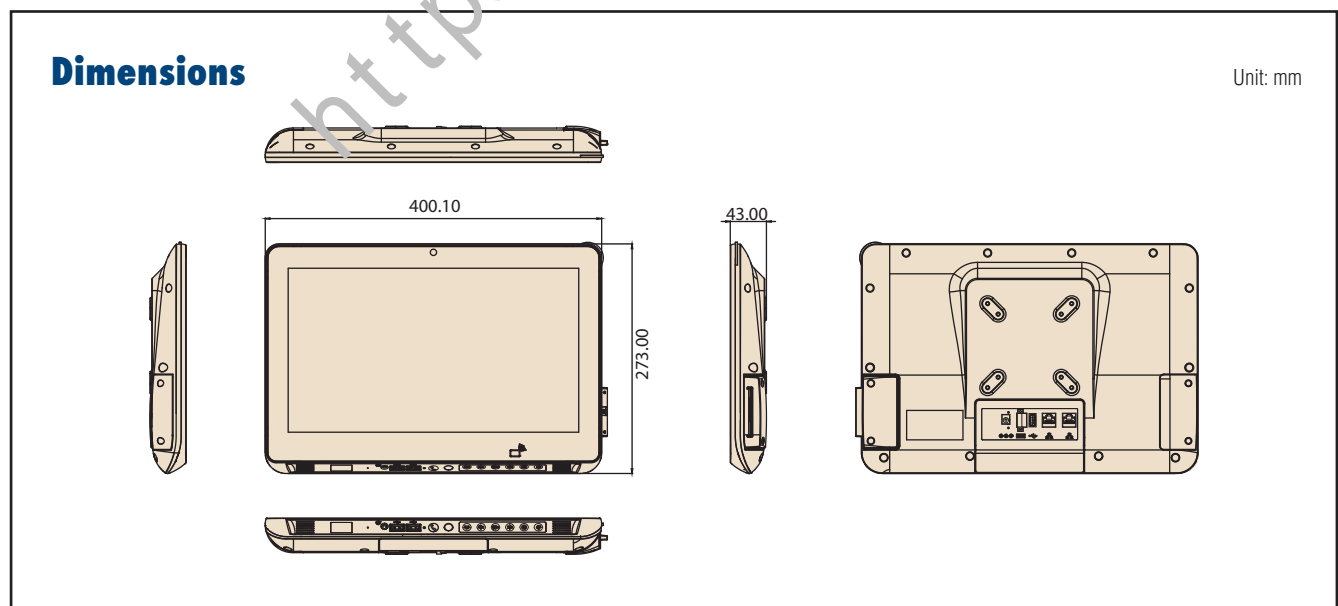
Ordering Information

| Part Number	Description
HIT-W153AP-AMW1E	15.6" Wide Screen, Intel Celeron N4200, PCAP Touch, 4G RAM, 64G SSD, Web Camera, Smart Card Reader, WiFi/BT, RFID, Medical Adapter, Win10 IoT Embedded
HIT-W153AP-ATW1E	15.6" Wide Screen, Intel Celeron N4200, PCAP Touch, 4G RAM, 64G SSD, Web Camera, Smart Card Reader, WiFi/BT, RFID, ITE Adapter, Win10 IoT Embedded
HIT-W153AP-APW1E	15.6" Wide Screen, Intel Celeron N4200, PCAP Touch, 4G RAM, 64G SSD, Web Camera, Smart Card Reader, WiFi/BT, RFID, PoE, Win10 IoT Embedded

Accessories

Part Number	Description
HIT-W183-HSK0E	HIT-W183 & HIT-W153 Handset Kit
1700001524	Power cord USA 1.83M (for ITE)
170203180A	Power cord UK 1.83M (for ITE)
170203183C	Power cord EU 1.83M (for ITE)
1702002600	Power Cable USA 1.8 M (for Medical)
1702002605	Power Cable EU 1.8 M (for Medical)
1700018704	Power Cord UK 1.8 M (for Medical)

Peripherals for HIT-W513 Series

Part Number	Description
ARES-12250-L101000	Wall mount
ARES-1204G-AR01101	
ARES-7621C	Long reach arm
ARES-7321I	
ARES-7221A	
ARES-2424X-S170200	Table stand
ARES-2425X-S271000	

Fully- Integrated I/O

Front View

Rear View

Rear View
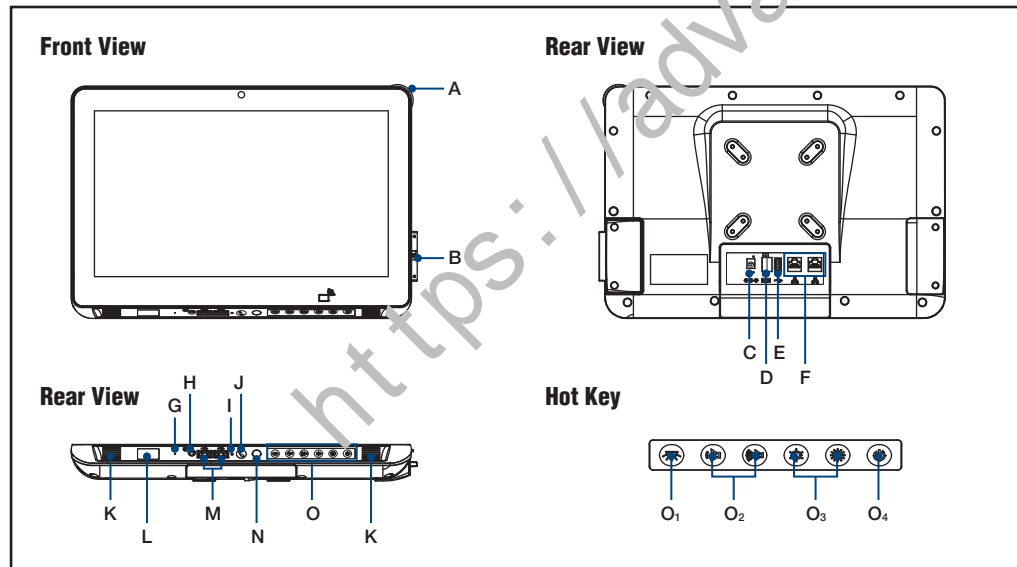
Hot Key

A. Alarm lens
B. Smart card reader
C. DC jack
D. Digital I/O Phoenix port (4 pin)
E. USB 3.0
F. Isolated RJ-45 LAN
G. Mic
H. Audio jack (TRRS)
I. Reset button
J. Nurse call button
K. Speaker
L. Barcode scanner (optional)
M. USB 2.0
N. Reading Light
O. Hot key
  O_1. Reading light on/off
  O_2. Volume up/down
  O_3. Brightness up/down
  O_4. Screen on/off

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
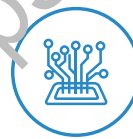- Screens, USB devices, printers

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	LAN	DeviceOn Server	Internet	Browser
Hardware · Software · Peripherals (android, Windows)		Cloud · On-site installation		Monitor status · Controls
Free Installation Via the Advantech website		**Download Installer** Via the Advantech website		**Free Installation** Via browser

Required Hardware

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