

Advantech Patient and Healthcare Infotainment Terminal

Enabling Digital Healthcare

- ✓ Bedside Infotainment Terminal
- ✓ Healthcare Mobile Terminal
- ✓ Treatment Center Computer
- ✓ Elderly Home Telecare
- ✓ Nurse Work Station
- ✓ Blood Test Lab
- ✓ Fitness Center



ADVANTECH

Enabling an Intelligent Planet

www.advantech.com

The Overview Picture of HIT and PIT Applications at Healthcare Center

Advantech healthcare infotainment terminals are designed to satisfy strong demands for faster, safer, and reliable health communications systems by enhancing the quality and efficiency at hospitals and healthcare-related facilities.





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PIT/HIT Highlight Features

Providing a high level of patient care and patient safety are top priorities of every healthcare organization.

Advantech all-in-one HIT / PIT series are intelligent healthcare bedside infotainment terminals, consisting of healthcare equipment and queuing machine. Enabling the hospital staff with secure access to a patient's consolidated Electronic Health Records (EHRs) at the point of care helps to address these priorities and deliver accuracy in computing to reduce medication errors during hospital services.

- The quality of patient care improves as clinicians are free to spend more time with the patients and the queuing function helps medical staffs store and retrieve patient information.
- With real-time access to patient records, the risk of error is reduced, thereby improving patient safety. The intelligent healthcare equipment also benefit medical staff by offering secure, remote access to electronic patient data, optimizing hospital workflow and serving to aid professionals in their diagnoses.



IP65

Front IP65

- Liquid/dust Proof
- Chemical resistance
- Easy to clean



Compact Size

- Slim and light with stylish looks
- Highly integrated peripherals
- Multi-connectivity



Touch Select

- Glove detectable / sensible
- Quick and intuitive response
- Resistive and P-Cap



Fanless

- Quiet operation
- No external debris
- Power-efficiency



VESA Mount

- Various mounting options such as table stand, wall mount and floor stand



Anti-microbial Cover Glass

- long-lasting antimicrobial efficacy
- 9H Hardness
- Outstanding optical clarity





Designed especially for healthcare environment, PIT/HIT series adopt antimicrobial cover glass which provides a tough and clean surface that is the best fit to all applications in public spaces, hospitals, treatment centers, and nursing homes.

- ☑ **9H Hardness**
- ☑ **Scratch resistance; Spill and dust-resistant suitable for the medical, public space and hospitality environment**
- ☑ **Chemical resistant glass offers a more durable damage-resistant alternative to HIT-R series screen**
- ☑ **Added protection without impacting response**
- ☑ **Water, chemical and disinfectant resistant coating: easy to clean and remove dust and dirt.**



	Resistive Touch Glass	Standard Glass (Soda Lime Strengthen PCap Touch Screen)	Antimicrobial PCap. Touch Glass
Hardness	3H	7H	9H
Impact Test	130g steel ball fall at 50 cm - Pass	130g iron ball fall at 130 cm - Pass	530g iron ball fall at 130 cm - Pass
Touch Point	Single Touch	Multiple Touch	Multiple Touch
Anti-Microbial	No	No	Yes (Water/Dust/Chemical Proof)
Visible Light Transmission	80 % ± 2 %	90 % ± 2 %	90 % ± 2 %
Availability	MP	MP	MP

Patient Infotainment Terminal

Scalable. Functional. Easy to Use

The PIT Series is precision-designed with features that will appeal to hospitals and clinics. Isolated I/O for COM and LAN ports are built in, and the centralized rear I/O panel can be easily covered by an arm mount or custom cover. Standard VESA mounts and a slim design makes this system easily storable when not in use; be it in a patient room as an infotainment device or as part of a hospital information system for use by medical staff.






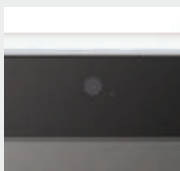






PIT-1702



PIT-1502W



Rich Peripheral Options for Infotainment, Communications, Identification, and Payment

 <p>Nurse Call Button</p>	 <p>LED Light Indicators</p>	 <p>Handset</p>	 <p>Built-in 5M Camera</p>	 <p>Remote Controller</p>
 <p>Barcode Reader</p>	 <p>RFID Sensor (Hidden)</p>	 <p>MSR Tray</p>	 <p>Programmable Front Hot Keys</p>	 <p>Wifi + Bluetooth</p>

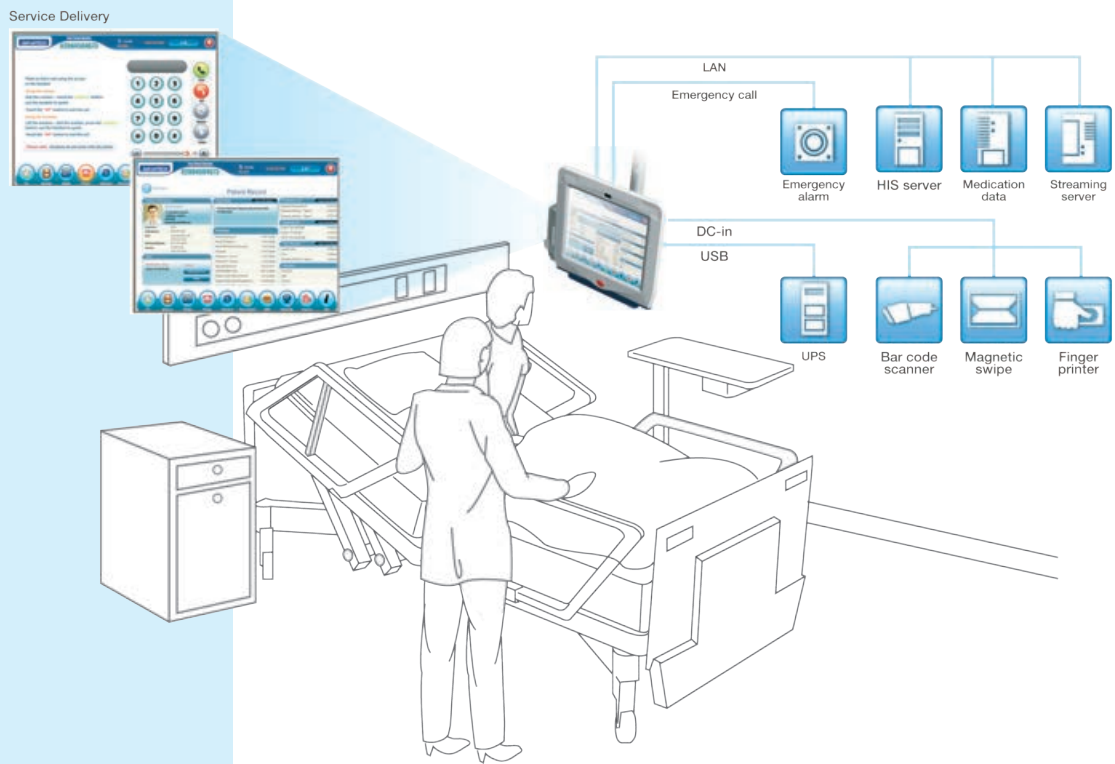
In Touch with Patients



Patient infotainment refers to a variety of “bedside terminals” that allow patients to do anything from watching movies and TV, to making phone calls, playing games, or communicating via the internet. They can also be used for email, web browsing, accessing hospital intranets, or even work if medically advisable. Infotainment terminals may also be used to alert staff, call for help, and operate beds, lighting, curtains, and other installations. Infotainment terminals may be used by patients as well as medical staff and care providers. The terminals can be used to look up electronic patient records, lab results and tests; monitor vital signs and other signals; document observations and changes; and more. This means a single integrated solution can provide digital entertainment and clinical services, as well as communication to the point-of-care.

Software Solutions

Working with the world’s leading clinical bedside computing technology, our software partners provide a secure touchscreen gateway to power clinical diagnostics, provide up-to-date medical data, the latest in digital entertainment, and communications services to every patient bedside.



Potential Applications

- Hospital services/directions
- Menus/special order
- Promotional videos
- Internet access
- Digital phone
- Intranet access
- Movies-on-demand
- Bed administration
- Accounts and billing
- HIS reporting/surveys
- Electronic drug charting
- Educational programming
- Nursing observation assistant
- Electronic patient records (EPR)
- Computerized physician/provider order entry (CPOE)
- Video conferences

Patient Bedside Best Fit Closely in Touch with Patients

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Network Connectivity

- Built-in WAN/LAN



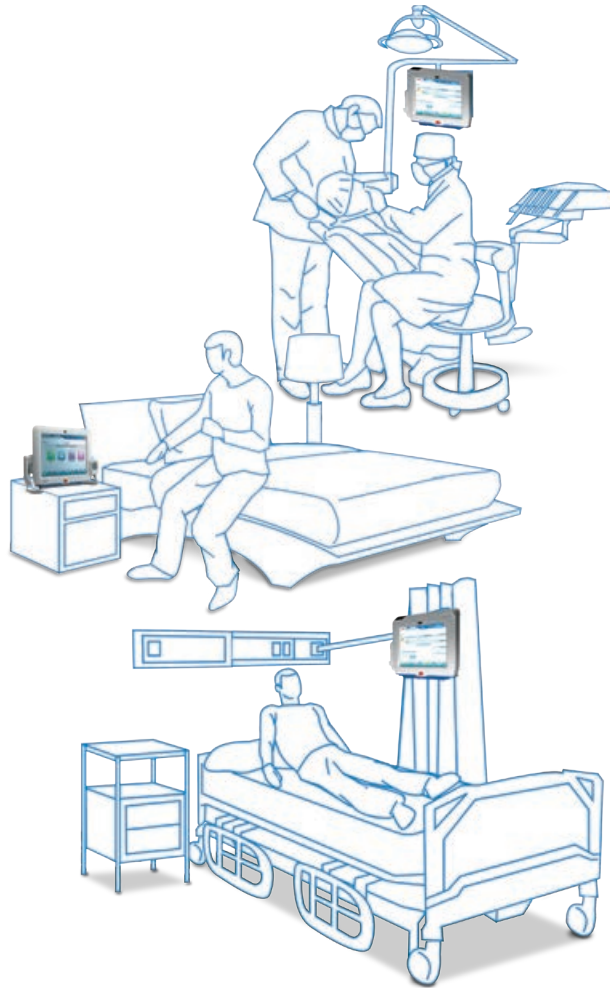
Smart Card Reader

- Smart Card authentication for commercial billing



Handset & CMOS Camera

- Handset for video phone/ Skype/ MSN communications



TV Tuner

- Multiple TV channels



RFID Enabled

- Retrieve electronic patient records via RFID



Built-in Emergency Button

- Request help and service with one touch

Bedside Infotainment and Satisfaction

- **Obtain educational information:**
Patient specific educational multimedia programs can be delivered to the patient for information related to their medical needs.
- **Alleviate anxiety:**
Provide TV service, movies, and computer games to the patient to help alleviate anxiety and stress.
- **Stay connected:**
The built-in webcam, along with internet access, can help a patient stay connected while they are out of work and away from family.

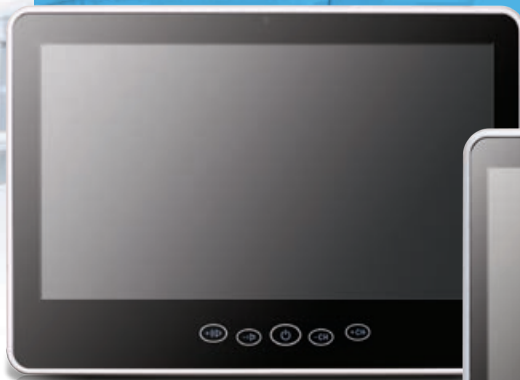
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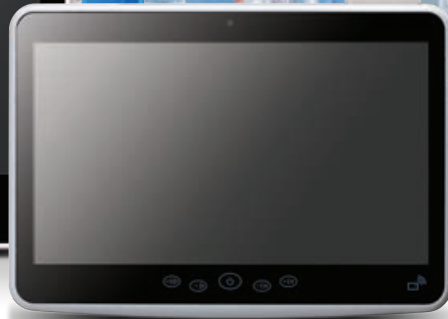
Healthcare Infotainment Terminal

Excusive . Premium . Performance

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HIT-W151



HIT-W222



HIT-W181

Front

- 1 Camera
- 2 VOIP handset
- 3 Programmable touch hotkey
- 4 Push button LED indicator
- 5 RFID sensor
- 6 Remote controller

Side

- 7 Smart card tray
- 8 SD Slot
- 9 Docking for add-on MSR/ controller/finger scanner
- 10 Speaker/Barcode

I/O

- 11 2D Barcode
- 12 Built-in Mic
- 13 USB 2.0*2
- 14 Earphone
- 15 Speaker

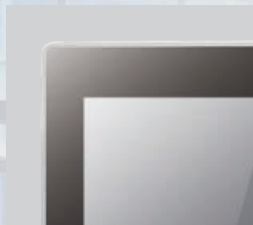
Back

- 16 TV tuner cable/ antenna connector
- 17 DC jack
- 18 USB 2.0
- 19 Speaker



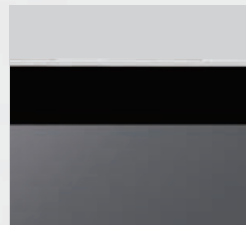
Innovative Slim and Light Design

The HIT-R Series, a healthcare terminal, Baytrial platform and Android ready terminal, not only for bedside patient infotainment terminal and able for fitness entertainment terminal. The lightweight, slim-profile terminal can be wall-mounted, or made mobile by combining it with a mini-cart or setting it up on a dining table. It serves a dual purpose in hospital rooms: giving medical staff bedside access to patient information, and giving patients entertainment options to ease their recovery. HIT-R supports x86 and RISC hardware, and a variety of operating systems including Windows, Android, and Linux, as well as being integrated with Advantech's SUSIAccess API environment.



Zero Bezel Design

- Slim and Light
- Easy mounted

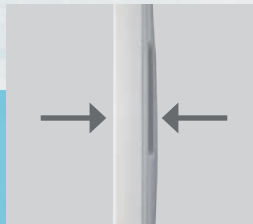


True-flat Touch Screen

- Resistive/ P-Cap
- Antimicrobial glass
- IP65- Water and dust proof



3.2 KG Light



32mm Slim



Glossy Finished Enclosure

HIT-R151



Integrated Rich I/O

- Inward design, water and dust proof
- Power, USB, Mic and Headphone



Sliding Camera Cover

- Protect user privacy

*HIT-R181 Only



2nd Smart Card Reader

- Doctor/Nurse daily patrol identification
- Patient medical record retrieval
- Medicine prescription accuracy

*HIT-R181 Only



HIT-R181



Fanless



IP65

Gaming Console Extended Screen



HIT R-Series

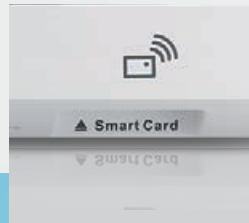


HDMI Capture Card



Gaming

Combo Slot



Contact and Contactless Combo Reader

- Patient identification
- Pre-paid card for entertainment or meal payment

*HIT-R181 Only



POE (Power Over Ethernet)

- Single cable to provide both data connection and electrical power

*HIT-R151 Only



Stereo Speakers

- Great position, face to the patient
- Amazing sound quality
- waterproof capability

Dual Ethernet for Data Security Enhancement

Benefits:

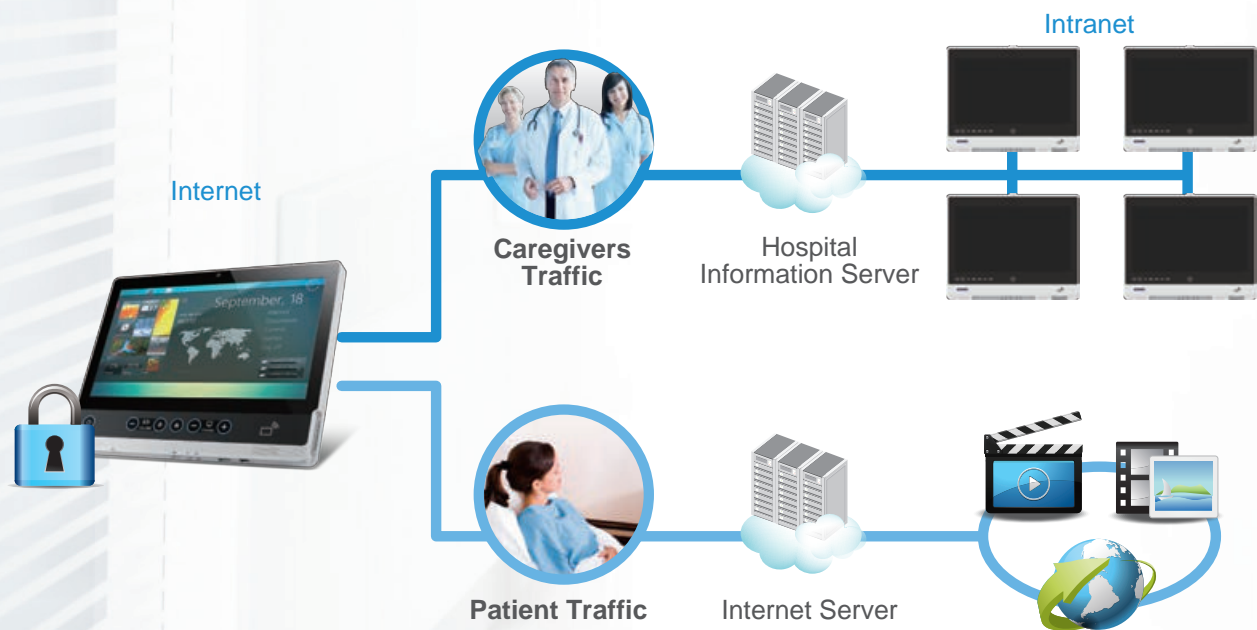
- Separate Patient (Internet) and Caregivers (Intranet) Traffic
- Reduce unnecessary Traffic on the hospital network
- IT can effectively manage data security

Built-in POE module

First 15" Medical All-in-one Computer Equipped with POE (Power Over Ethernet)

* Supply total 25 watt for HIT-R151F (Freescale SKU)

Design Feature - Data Security Enhancement





Beyond the Bedside: The HIT Takes Healthcare Quality and Patient Safety to the Next Level

Chair-side Multimedia Infotainment

- Obtain educational and entertaining information
- Various programs for stress relief
- Enable digital billing and cashless payment

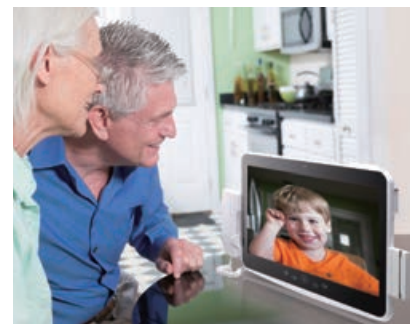


Mobile Medication Terminal

- Provide a safer and more secure medication administration process
- Create greater efficiency, improving patient care and nurse satisfaction
- Extract patient records and medication prescription

Elderly Real-time Homecare Service

- Distant tele-medicine for a quick clinical healthcare
- Elderly can enjoy real-time communication with the care givers
- Medical staff is able to explain the diagnosis more clearly through webcam or IP phone communication



Highlight Scenarios:

- Hospital/Medical Center
- Treatment Centers
- Senior Care/Home Care

Highlight Applications:

- Single and multi-touch point for information and entertainment
- Increase revenue through billing patients for infotainment services
- Real-time access to healthcare systems
- Facilitates process efficiency

Healthcare Intelligent All-in-one Terminal Facilitates Hospital Efficiency



Medically certified all-in-one terminals can be easily mounted anywhere in the healthcare facility. One of the practical uses is to combine HIT R-Series with nursing cart equipment to ensure data accuracy. The onboard RFID and Barcode module can be activated for medicine tracking and medicine administration. The intelligent medical nursing cart with HIT R-Series terminals not only allows hospital staff to reduce paperwork and possible transcription errors, but also greatly improves productivity and service quality.

The HIT R-Series features an integrated compact peripheral system. It offers a slim, light and stylish touch computer equipped with embedded camera, MSR, NFC (RFID), barcode scanner and configurable function key. It's water and dust proof, easy to clean, and designed with isolated I/O COM and LAN ports to prevent interference. HIT R-Series is the ideal medical system for healthcare applications.



Highlight Scenarios:

- Nursing Cart/ Nursing Station
- Doctor's Office/ Pharmacy Counter
- Examination Center/ Dialysis Center

Highlight Applications:

- Enhance service quality, increase work efficiency and data accuracy
- Unique, space-saving design with clutter-free cable management
- A total solution with hardware, software and ongoing support



Advantech HIT is ideal for iHealthcare Mobile Terminal

Advantech medically certified all-in-one terminals can be easily mounted anywhere in the healthcare facility. It can be paired with various types of equipment to ensure data accuracy, medicine tracking, and medicine administration. Integrated functional modules such as Barcode, RFID, MSR, Smart Card, allow healthcare givers to speed up the working efficiency, reduce paperwork and possible transcription errors. It enables healthcare center to improve productivity and service quality.



Boundaryless Information Flow

Record and time management, as well as a web portal to hospital services and information system, generating shift report from data and notes collected during the shift.



Improve data accuracy

The onboard RFID module can be activated for accurate medicine tracking and patient medical record access, reducing patient identification errors.

Extend the Reach of Care into the Home and Senior Centers

There is a growing trend in the market toward development of remote healthcare for elderly people and patients. Remote medical services assist in the monitoring of health conditions of a care receiver by obtaining and analyzing their physiological parameters, and providing medical services and treatments at the most appropriate time. The infotainment terminal can serve as the computing platform to connect a care receiver and a family member, or a care receiver and a doctor at two different places. Information such as blood pressure, heart rate or blood sugar levels are transmitted to a family member or a doctor through the internet or via tele-networking, helping determine the care receiver's current conditions and provide timely homecare or medical services.





Extend the Reach of Entertaining experience into the Fitness Centers

A well-known fitness center installed interactive touch computers to provide round-the-clock customer service. More programs, more often, engage more people than ever before.

The all-in-one, HIT R-Series serves hundreds of pre-recorded fitness videos. It is paired with a full HD touchscreen, speakers, and camera that transforms video-based fitness into a lifestyle experience. Through a barcode scanner and NFC (RFID) reader, clients can easily check-in or out, and book or join classes at anytime. The system is WiFi-enabled and supports various operating systems. Using it customers are able to enjoy social networking and share their workout status online.



HIT in Use as a Slim, On-top Fitness Console

- Entertainment Console On-top of Treadmill & Cardio Machine
- Personal Smart Trainer



Fitness Center Room Temperature Control

- Temperature monitoring and control in fitness center
- In-wall scenario control and signage



Fitness Check-In and Interactive Signage

- Member check-in system
- Member loyalty redemption
- Interactive lobby signage

Case Study



Patient Bedside Case

Location: St. Olav's University Hospital, Norway & Worldwide

Imatis is a leading provider of innovative software solutions specifically designed for the healthcare industry. Imatis products focus on connecting people, information, processes, and systems within a healthcare organization, to achieve truly integrated healthcare solutions. The infotainment market began as a replacement to TV sets in hospital patient rooms. As technology developed, the focus switched to clinical access and connectivity to hospital information systems (HIS) from these devices. The industry is demanding integrated portals that can provide patient applications such as meal ordering, patient blogs, and a nurse call system; serve as platforms for viewing X-rays, scans, and patient charts; be adapted for customized ward or department-specific services; provide hospitals with a method to create an electronic medical record (EMR) as mandated by more and more government health care agencies; all while serving entertainment needs like TV, radio, video, internet, console gaming, telephone, instant messaging and VOIP.

Solution

A replacement to TV set and focus on clinical access and connectivity to hospital information system. PIT-1502 provide hospitals with a method to create an electronic medical record (EMR) and integrated portals for patients applications such as meal ordering, viewing medical records and entertainment, etc.



Product Attributes

- ITE and Medical Dual Certificate
- Screen-to-receptacle solutions with VESA swing-arm mounts and integrated cable management.
- Reliable industrial grade and easy-to-clean full-flat screen
- Fanless design provides a quiet rest environment

Benefits

- Compliance with EMR mandates and real-time access to HIS (Hospital Information System)
- Smart card authentication to limit access to authorized personnel
- Increased efficiency, safety, risk reduction, and error improvements
- Single-point for information and entertainment options in patient rooms



Mobile Terminal Case

Location: France

The average 500-bed hospital in France generates a turnover of about 548 euros per day per bed, with an operating staff of about 500 to 600 members. This equates to one medical professional per bed, but with about 30% of their time taken up by administrative paperwork, which includes regulatory forms, prescriptions, recording lab results, measurements and wait times to transfer an average of 25 pages of information per patient, staff members really are left with about eight minutes per day per patient for actual care.

Solution

A comprehensive service table with HIT-W181 has helped the hospital improve profitability by increasing patient turnover and helped healthcare givers free up time and improve patient care.



Product Attributes

- Highly reliable design with anti-vibration and heat prevention design
- Multi-function touchscreen with high-performance computing system
- Capable for carry with the compact size and low battery consumption
- Comprehensive applications suite ensure medical personnel to have access to the data they need while actually providing patient care

Benefits

- Faster and more in-depth analysis available to patients
- Increased safety and reduction in errors
- Unique, space-saving design with clutter-free cable management
- A total solution with hardware, software and ongoing support

Case Study



Nurse Station/Lab Case

Location: Mennonite Christian Hospital, Taiwan

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Solution

Efficiency and quality are key concerns. Medical personnel were looking for a way to improve response while enhancing accuracy for patients.



Product Attributes

- All-in-one system with low power consumption with powerful computing performance
- Able to connected the systems via Ethernet to the hospital's LAN network & HIS system
- Slim profile with cable management system that minimizes its space on the desk
- Corning Gorilla Anti-microbial and IP65 certified

Benefits

- Allow staff shorten decision making and administrative paperwork and have more time to care for patient.
- Billing and liquidity have shorten turnaround on insurance claims.
- Timely real-time test/lab result, reduce errors or loss, and improve diagnoses
- Patient stays have been reduced



Self-Service Case

Location: Taiwan

Self-Service Kiosks Help Hospital Reduce Patient Wait Times, Paperwork, And Anxiety

The system, which supports hospital HIS/NIS system, has cut check-in time by 25% for first-time patients and 75% for return visits. When patients check in for same-day surgery or preadmission testing, they no longer need to wait a half-hour or more to be called by hospital registration workers to complete paperwork. Not only is the automated check-in process quicker and more efficient, it greatly reduces the amount of cumbersome registration paperwork needed, not to mention patient anxiety levels that tend to mount when people need to wait before a medical procedure. Advantech HIT & PIT series terminals feature smart-card readers are suitable for medical center or hospital including oncology, pediatric surgery, pediatric and adults clinics, rehabilitation, nurse station, labs and lobby. The system helps medical center staff become more productive and able to provide additional service to patients, increase the patient satisfaction.

Solution

The lightweight, slim-profile terminal R-181 is easily combined with assessment device for patient to screen their vision, blood pressure, weight, and body mass index. Self-serve computer stations help people figure out whether they need medications for conditions such as high cholesterol



Product Attributes

- Card reader and badge ID Identification
- Special desktop stand and VESA mounting design for various applications use
- Ruggedized Multi Touch T/S glass
- Quick data retrieving through RFID, Barcode and Smart Card Reader

Benefits

- Providing self-service service to alleviate staff burden
- Enhance service quality, increase work efficiency and data accuracy
- Support real-time communication through VOIP phone
- Easy to implement as Point-of-Care workstation



Remote Home Care Access

Location: St. Olav's University Hospital, Norway & Worldwide

All-in-one solution for home remote health care and elderly care

We provide the simplest and sturdiest telemedicine home-care service available on the market. It is an uncomplicated service that both healthcare providers and patients can easily cope with.

HIT/PIT series terminal able to receive the medical data of a patient by remote means. Different types of metabolism measurements and a large assortment of daily health or activity data using various technological methods, systems and applications can be utilized by the terminal where the operator decides the type of data to be transferred from the patient. HIT/PIT series are extremely cost-effective multifunctional hardware that while giving direct access to the home care calendar and the patients prescribed task list, has other integrated function's in addition to its remote monitoring of a patient, for example an emergency or panic button. It does of course also offer a direct video meeting between the care-unit and the patient. Furthermore, all information can be transmitted wirelessly between the touch terminal for video communication to transfer all data via WiFi internet connection.

Solution

A wall-mounted or table stand iPad-like PIT/ HIT device allows elderly people to take care of themselves, and also saves the government a great deal of money for the police resources and senior home care welfare compensation.



Product Attributes

- An intuitive and flexible content program
- User-friendly responsive multi-touch screen with high-resolution image
- Built-in Wifi/Bluetooth for wireless connectivity
- Comprehensive applications suite ensure biometrics data and medication analysis

Benefits

- Combines the screen with wirelessly connected sensors. The motion sensors know if people are in the room or open a door, and send out alarms
- Has a planner for patients or carers to record up-coming events and provides spoken reminders about daily tasks, such as when they need to take medicine.
- Telemedicine and online clinic scheduling
- Health data recording/analysis, biometrics data recording and physiology data analysis

HIT Box



Category	Attribute	HIT-BX1/HIT-BX2 Healthcare Infotainment BOX computer
System	CPU	Intel Atom Dual Core D2550 - 1.86 GHz Intel Core i3 3217UE - 1.6 GHz Intel Core i7 3517UE - 1.7 GHz
	Chipset	Intel Atom D2550 + NM10 Intel Core i3 3217UE + QM77 Intel Core i7 3517UE + QM77
	Memory	Default 2 GB Maximum: 4 GB (D2550) / 8 GB (Core i3/i7)
	Storage	2.5" HDD SATA
	Camera	-
Display	Size	-
	Max Resolution	-
	Brightness	-
	Contrast Ratio	-
Touch Screen	Type	-
	Light Transmission	-
	Durability	-
I/O	USB 3.0	2 (Core i3/i7 Only)
	USB 2.0	4 (D2550) / 2 (Core i3/i7)
	COM Port	2 (Isolated) (Optional)
	VGA	1
	HDMI	1 (D2550)
	HDMI/Display Port	1 (Core i3/i7)
	Line/Mic In	1
	Line/Headphone Out	1
	DC-In	1
Network	LAN	2 (10/100/1000 Mbps)
	WLAN	802.11 b/g/n Supports Intel WiDi Technology (Optional)
Emergency Alarm	Hotkeys	-
	LED Light Indicator	-
Expansion	Mini-PCI	-
	Mini-PCle	1 (D2550) 2 (Core i3/i7)
Mechanical	Dimensions (WxHxD)	224 x 205.9 x 58.6 mm
	Weight	2.7 kg
IP Ratings	Front Panel	-
	All Around	IPX1
Optional Accessories	MSR	-
	Barcode Scanner	-
	TV Tuner	Yes, DVBT/ATSC
	Handset Kit	-
	Remote Control	-
	Swing Arm	-
	Dual Touch	-

PIT Series Specifications



Model Name		PIT-1502W 15.6" Patient Infotainment Terminal	PIT-1503W 15.6" Full-flat Patient Infotainment Terminal	PIT-1702 17" Patient Infotainment Terminal	PIT-1703 17" Full-flat Patient Infotainment Terminal
System	CPU	Atom D510 Dual Core 1.67 GHz	Atom D510 Dual Core 1.67 GHz	Atom D525 Dual Core 1.8 GHz / Intel® Core™ i7 1.5 GHz	Atom D525 Dual Core 1.8 GHz / Intel® Core™ i7 1.5 GHz
	Chipset	D510 + ICH8M	D510 + ICH8M	D525 + ICH8M / 2610UE + U845E	D525 + ICH8M / 2610UE + U845E
	Memory	1 GB (up to 4G)	1 GB (up to 4G)	DDR3 1 GB (up to 4G) - D525 DDR3 1 GB (up 16G) - i7	DDR3 1 GB (up to 4G) - D525 DDR3 1 GB (up 16G) - i7
	Storage	CF or 2.5" HDD SATA	CF or 2.5" HDD SATA	CF or 2.5" HDD SATA	CF or 2.5" SATA HDD
	Camera	5 Megapixel	5 Megapixel	5 Megapixel	5 Megapixel
Display	Size	15.6" (16:9)	15.6" (16:9)	17"	17"
	Max Resolution	1366 x 768	1366 x 768	1280 x 1024	1280 x 1024
	Brightness	300 cd/m2	300 cd/m2	300 cd/m2	300 cd/m2
	Contrast Ratio	500:1	500:1	800:1	800:1
Touchscreen	Type	Analog Resistive	Full-Flat Analog Resistive	Analog Resistive	Full-Flat Analog Resistive
	Light Transmission	80%	80%	80%	80%
	Durability	30 million touches	30 million touches	30 million touches	30 million touches
I/O	USB	3 (Down x 2, Rear x 1)	3 (Down x 2, Rear x 1)	3 (Down x 2, Rear x 1)	3 (Down x 2, Rear x 1)
	COM Port	1 (Isolated)	1 (Isolated)	-	-
	VGA	1 (Optional)	1 (Optional)	1 (Optional)	1 (Optional)
	GPIO	-	-	-	-
	Smart Card Reader	1	1	1	1
	RFID	1 (Optional)	1 (Optional)	1 (Optional)	1 (Optional)
	3-in-1 Card Reader	-	-	-	-
Network	LAN	1 (10/100/100 Mbps)	1 (10/100/100 Mbps)	1 (10/100 Mbps)	1 (10/100 Mbps)
	WLAN	802.11 b/g/n	802.11 b/g/n	802.11 b/g	802.11 b/g/n
Emergency Alarm	Hotkey	1 (optional key, up to 7)	5 or 8	1 (optional key, up to 7)	5 or 8
	LED Light Indicator	2	2	2	2
Expansion	Mini-PCI	-	-	1	1
	Mini-PCle	1	1	-	2
Mechanical	Dimensions (WxHxD)	416 x 308 x 75 mm	416 x 308 x 75 mm	448 x 393 x 73.5 mm	448 x 393 x 73.5 mm
	Weight	4.8 kg	4.8 kg	6.8 kg	6.8 kg
IP Rating	Front Panel	IP65	IP65	IP65	IP65
	All Around	IPX1	IPX1	IPX1	IPX1
Optional Accessories	MSR	Yes	Yes	Yes	Yes
	Barcode Scanner	Yes	Yes	Yes	Yes
	TV Tuner	Yes	Yes	Yes	Yes
	Handset Kit	Yes	Yes	Yes	Yes
	Remote Control	Yes (9 keys)	Yes (9 keys)	Yes (9 keys)	Yes (9 keys)
	Swing Arm	Yes	Yes	Yes	Yes
Dual Touch	Yes	Yes	Yes	Yes	

HIT-R Series Specifications



Model Name		HIT-R151		HIT-R181	
		HIT-R151B	HIT-R151F	HIT-R181B	HIT-R181F
Description		15.6" Healthcare Infotainment Terminal		18.5" Healthcare Infotainment Terminal	
Hardware	CPU	Intel Celeron QC J1900 2.0 GHz Processor	Freescale iMX6 QC 1.0 GHz Processor	Intel Celeron QC J1900 2.0 GHz Processor	Freescale iMX6 QC 1.0 GHz Processor
	Memory	DDR3L 2GB/4GB (MAX)	DDR3 1GB/2GB (MAX)	DDR3L 2GB/4GB (MAX)	DDR3 1GB/2GB (MAX)
	Primary Storage	500GB 2.5" SATA HDD	eMMC 8GB	500GB 2.5" SATA HDD	eMMC 8GB
	Extend Storage	n/a	2.5" SATA HDD / SDHC	n/a	2.5" SATA HDD / SDHC
	Camera	5M CMOS with LED Indicator & Button	5M CMOS with LED Indicator & Button	5M CMOS with LED Indicator & Button	5M CMOS with LED Indicator & Button
	Bus Expansion	Half Mini-PCIe x 1, Full Mini-PCIe x 1	n/a	Half Mini-PCIe x 1, Full Mini-PCIe x 1	n/a
Display	Size	15.6" W TFT LED		18.5" W TFT LED	
	Max Resolution	1366 x 768		1366 x 768	
	Luminance	400 cd/m2		300 cd/m2	
	Contrast Ratio	500:1		1000:1	
Touchscreen	Type	Resistive 5 wires (Flat Glass) / Projected Capacitive (Flat Glass)		Resistive 5 wires (Flat Glass) / Projected Capacitive (Flat Glass)	
I/O Ports	USB	2 x USB 2.0 / 1 x USB 3.0		2 x USB 2.0 / 1 x USB 3.0	
	HDMI Out	n/a		1 (Rear)	
	SD Slot	n/a		n/a	
	Smart Card Reader	1		1	
	RFID	1		1	
	Headphone out	1		1	
	Microphone in	1		1	
	Handset out	2		1	
	Phoenix Port	1		1	
	DC-in	1		1	
	TV Tuner (SMA Jack)	1		1	
Power Button	1		1		
Audio	Speaker	2 watt x 2 , Audio output control via GPIO		2 watt x 2 , Audio output control via GPIO	
	Internal Microphone	1		1	
Network	Ethernet (Isolated)	10/100/1000 RJ-45 x 1		10/100/1000 RJ-45 x 1	
	Bluetooth	BT4.0 (Optional)		BT4.0 (Optional)	
	WLAN	802.11 a/b/g/n (Optional)		802.11 a/b/g/n (Optional)	
Software	OS	Linux 3.0, Android 4.x Windows Embedded 7 Standard, 7 Pro, 8 Standard, 8 Pro	Linux 3.0, Android 4.x	Linux 3.0, Android 4.x Windows Embedded 7 Standard, 7 Pro, 8 Standard, 8.1 Industry Pro	Linux 3.0, Android 4.x
Mechanical	Mounting	VESA 75 x 75 / 100 x 100 mm		VESA 75 x 75 / 100 x 100 mm	
	Dimensions (W x H x D)	392 x 313.5 x 32.8 mm		477.4 x 377.0 x 44.3 mm	
	Weight	Net Weight: 3.2kg (7.05lb) without adapter Gross Weight: 4.7kg (10.36lb)		Net Weight: 4.6kg (10.14lb) without adapter Gross Weight: 7kg (15.43lb)	
Options	TV Tuner	x1, Optional (Built-in Module)	n/a	x 1, Optional (Built-in Module)	n/a
	MSR	x 1, Optional (Add-On Module)	n/a	x 1, Optional (Add-On Module)	n/a
	Fingerprint Scanner	x 1, Optional (Add-On Module)	n/a	x 1, Optional (Add-On Module)	n/a
	Handset	Yes	Yes	Yes	Yes

HIT-W Series Specifications



Model Name		HIT-W121		HIT-W151	
		HIT-W121	HIT-W121B	HIT-W151/ W151B	HIT-W151H
Description		11.6" Healthcare Infotainment Terminal		15.6" Healthcare Infotainment Terminal	
System	CPU	Atom D510 Dual Core 1.67 GHz	Intel BayTrail J1900	Intel Atom D510/ D525	Intel Haswell Core i7-4650U 1.7GHz
	Memory	DDR2 (up to 2G)	DDR3L (up to 8GB)	DDR2 (up to 4G)	DDR3L (up to 8GB)
	Storage	CF / 2.5" SATA HDD	1 x 2.5" SATA HDD or SSD	CF / 2.5" SATA HDD	1 x 2.5" SATA HDD or SSD
	Camera	5 Megapixel	5 Megapixel	5 Megapixel	5 Megapixel
Display	Size	11.6" (16:9)	11.6" (16:9)	15.6" (16:9)	15.6" (16:9)
	Max Resolution	1366 x 768	1366 x 768	1366 x 768	1366 x 768
	Brightness	200 cd/m2	200 cd/m2	300 cd/m2	300 cd/m2
	Contrast Ratio	400:1	400:1	500:1	500:1
Touchscreen	Type	Full-Flat Analog Resistive (PCT as option)	Full-Flat Analog Resistive (PCT as option)	Full-Flat Analog Resistive (PCT as option)	Full-Flat Analog Resistive (PCT as option)
I/O Ports	USB	3 x USB 2.0	2 x USB 2.0 / 1 x USB 3.0	5 x USB 2.0	1 x USB 2.0 / 4 x USB 3.0
	COM Port	1	1	2	2
	VGA	N/A	N/A	1	N/A
	HDMI	N/A	N/A	1	N/A
	Smart Card Reader	1	1	1	1
	RFID	Optional	Optional	Optional	Optional
	SD Card Reader	1	1	1	1
Network	LAN	10/100/1000 Mbps	10/100/1000 Mbps (w/ PoE)	10/100/1000 Mbps x2	10/100/1000 Mbps x2
	WLAN/BT	802.11 a/b/g/n	802.11 a/b/g/n + BT4.0	802.11 a/b/g/n	802.11 a/b/g/n + BT4.0
Function key	Hotkey	Yes (W/MOQ)	Yes	5 or 8 (2 types)	5 or 8 (2 types)
Emergency Alarm	LED Light Indicator	1	1	-	-
Expansion	Mini-PCle	2	2	2	2
Mechanical	Dimensions(WxHxD)	302.5 x 220.25 x 43 mm	302.5 x 220.25 x 43 mm	400 x 285 x 50.3 mm	400 x 285 x 50.3 mm
	Weight	2.3 kg	2.3 kg	5 kg	5 kg
IP Rating Self Compliant	Front Panel	IP65	IP65	IP65	IP65
	All Around	IPX1	IPX1	IPX1	IPX1
Accessories (Optional)*	MSR	Yes	Yes	Yes	Yes
	Barcode Scanner	Yes	Yes	Yes	Yes
	TV Tuner	Yes	Yes	Yes	Yes
	Handset Kit	Yes	Yes	Yes	Yes
	Remote Control	By Request	By Request	By Request	By Request
	Swing Arm	Yes	Yes	Yes	Yes



Model Name		HIT-W181/ 182		HIT-W221/ 222	
		HIT-W181B	HIT-W182H	HIT-W221B	HIT-W222H
Description		18.5" Healthcare Infotainment Terminal		21.5" Healthcare Infotainment Terminal	
System	CPU	Intel BayTrail J1900	Intel Haswell Core i7-4650U 1.7GHz	Intel BayTrail J1900	Intel Haswell Core i7-4650U 1.7GHz
	Memory	DDR3L (up to 8GB)	DDR3L (up to 8GB)	DDR3L (up to 8GB)	DDR3L (up to 8GB)
	Storage	1 x 2.5" SATA HDD or SSD	1 x 2.5" SATA HDD or SSD	1 x 2.5" SATA HDD or SSD	1 x 2.5" SATA HDD or SSD
	Camera	5 Megapixel	5 Megapixel	5 Megapixel	5 Megapixel
Display	Size	18.5" (16:9)	18.5" (16:9)	21.5" (16:9)	21.5" (16:9)
	Max Resolution	1366 x 768	1366 x 768	1920 x 1080	1920 x 1080
	Brightness	350 cd/m2	350 cd/m2	250 cd/m2	250 cd/m2
	Contrast Ratio	1000:1	1000:1	5000:1	5000:1
Touchscreen	Type	Full-Flat Analog Resistive (PCT as option)	Full-Flat Analog Resistive (PCT as option)	Full-Flat Analog Resistive (PCT as option)	Full-Flat Analog Resistive (PCT as option)
I/O Ports	USB	2 x USB 2.0 / 1 x USB 3.0	2 x USB 2.0 / 1 x USB 3.0	2 x USB 2.0 / 1 x USB 3.0	2 x USB 2.0 / 1 x USB 3.0
	COM Port	1	1	1	1
	VGA	N/A	N/A	N/A	Optional
	HDMI	N/A	N/A	N/A	N/A
	Smart Card Reader	1	1	1	1
	RFID	Optional	Optional	Optional	Optional
	SD Card Reader	1	1	1	1
Network	LAN	10/100/1000 Mbps x1	10/100/1000 Mbps x1	10/100/1000 Mbps x1 + 1 (Optional)	10/100/1000 Mbps x1 + 1 (Optional)
	WLAN/BT	802.11 a/b/g/n + BT4.0	802.11 a/b/g/n + BT4.0	802.11 a/b/g/n + BT4.0	802.11 a/b/g/n + BT4.0
Function key	Hotkey	5 (Resistive) 4 (PCT)	5 (Resistive) 4 (PCT)	5 (Resistive) 9 (PCT)	5 (Resistive) 9 (PCT)
Emergency Alarm	LED Light Indicator	1 (3 colors)	1 (3 colors)	1 (3 colors)	1 (3 colors)
Expansion	Mini-PCIe	2	2	2	2
Mechanical	Dimensions(WxHxD)	460 x 328 x 48 mm	460 x 328 x 48 mm	512 x 368 x 51.2 mm	512 x 368 x 51.2 mm
	Weight	6.5 kg	6.5 kg	6.8 kg	6.8 kg
IP Rating Self Compliant	Front Panel	IP65	IP65	IP65	IP65
	All Around	IPX1	IPX1	IPX1	IPX1
Accessories (Optional)"	MSR	Yes	Yes	Yes	Yes
	Barcode Scanner	Yes	Yes	Yes	Yes
	TV Tuner	Yes	Yes	Yes	Yes
	Handset Kit	Yes	Yes	Yes	Yes
	Remote Control	By Request	By Request	By Request	By Request
	Swing Arm	Yes	Yes	Yes	Yes

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