Healthcare Information Terminals
Enhancing Patient Satisfaction and Caregiver Productivity

- IP Nurse Call Applications
- Nurse Station Terminals
- Bedside Information Terminals
- Bedhead Unit Terminals
- Door-Side Terminals
- Medical Equipment HMI

ADVANTECH
Enabling an Intelligent Planet

DeviceOn/iService
IP-Based Nurse Call System
Real-time data access and delivery

Advantech’s HIT series of healthcare information terminals are available in a wide range of sizes (7 ~ 18.5”) to ensure flexible integration for diverse applications.

Optimal Call Quality
The inclusion of a noise-cancellation handset and dedicated audio codec guarantee optimal sound quality for nursing assistance calls.

Emergency call alerts are presented on the nursing dashboard.

Nursing station terminals enable caregivers to manage patient requests and ward responsibilities.

Nurse Station Terminals
HIT-W183
18.5”
- Access patient medical records
- Retrieve laboratory results
- Monitor patient vital signs

Door-Side Terminals
HIT-507
7”
- Display patient name
- Provide access control
- Manage room environment
The red emergency call button and LED indicators can be integrated with existing nurse call systems and provide hardwired functionality to ensure continual support in the event of power outages and emergencies.

Doctors can access and review patient records in real time.

Patient request and call alerts can be triggered from the terminal via the handset or integrated call button.

Overdoor lights that are visible from a distance are used to indicate alarm events and provide an instant visual aid for medical staff.

**Bedhead Terminals**

- HIT-512/HIT-W101
  - 11.6"/10.1"
  - Connect to the nurse station
  - Display treatment information
  - Update patient medical records

**Bedside Terminals**

- HIT-W153
  - 15.6"
  - Send requests for nurse assistance
  - Serve as patient infotainment system
  - Manage room environment
Medical Equipment HMI
Medical-grade terminals for rapid development

CT Scanner
HIT series terminals support two assembly configurations, panel mount and open frame installation, enabling rapid CT scanner deployment. Additionally, with support for real-time monitoring and over-the-air updates, software maintenance and upgrades can be easily performed.

C-Arm Machine
The system I/O can be installed at the underside or rear of the terminal according to the cable routing, eliminating the need to modify the design during manufacturing. Meanwhile, support for VESA mounting allows the HIT series terminals to be installed on a mobile workstation to serve as a control panel.

HIT Series

Medical-Grade Design
- Medical CE, FCC, EN60601-1, UL60601-1, and 60601-1-2 certified
- IP65-rated front panel
- Fanless design

Touch Control
- P-CAP touch function
- Glove-tolerant sensing
- Ultra-responsive touchscreen

Single Sign-On with RFID
imprivata®
Enabling Healthcare. Securely.
Compliant with UL60601-1/60601-1-2 safety standards for medical devices, Advantech’s HIT series minimizes time-to-market by ensuring compliance with relevant industry regulations. Moreover, the HIT series terminals support the Windows 10 IoT (64 bit), Android 8.1, and Linux operating systems, enabling easy integration with existing systems and infrastructure.

**DSA Machine**

The IP65-rated front panel protects against water and dust ingress and can be cleaned easily to ensure the highest levels of hygiene and infection control. Furthermore, the touchscreen features 10-point projected capacitive (P-CAP) touch control and support for gloved operation, ensuring convenient use during examination and treatment.

**Hemodialysis Machine**

HIT series terminals offer PoE support, which not only streamlines installation by eliminating the need for additional electrical infrastructure, but also ensures convenient connectivity. Furthermore, the scalability of PoE allows hospitals to install multiple terminals without concerns regarding power grid failures.

**Optimized for Easy Maintenance and Security**

- Dual isolated Ethernet ports for data security
- Real-time monitoring and OTA updates via DeviceOn/iService
- Two-year warranty guaranteed

**Customizable for Specific Applications**

- Wide range of optional peripherals
- Diverse assembly configurations
- Adjustable I/O installation location

**Easy Integration and Deployment**

- Triple OS support (Windows, Android, and Linux)
- Open APIs streamline integration
- PoE technology for easy installation
Application Stories
Flexible medical HMI for diverse usage scenarios

Advantech’s HIT-W153 Adopted by RCare for iCall IP-Based Nurse Call Solution
RCare is one of the world’s leading providers of advanced technologies for IP-based nurse call systems. The iCall wired nurse call system is RCare’s integrated hardware-software solution for healthcare communication that connects all devices in a hospital using IP technology.

When developing iCall, RCare adopted Advantech’s HIT-W153 terminals with a noise-cancelation handset to serve as nurse station terminals. Featuring a slim, fanless design and IP65 rating for protection from water and dust, HIT-W153 is suitable for medical applications because of the ease of sanitizing the device. The terminals are equipped with the iCall software to display calls received from ward/bed/corridor devices within the monitored area in real time. This solution enables nurses to respond to emergencies and requests according to the urgency and, if necessary, notify doctors and relevant staff members.

TMM Software Deploys HIT-W101LP and HIT-W183 Terminals in Hospital Wards to Optimize Operations
In 2020, TMM Software partnered with Advantech to provide intelligent computing solutions for patient wards to three French hospitals–Institut de Réadaptation d’Achères, Centre Hospitalier Alpes Léman, and Sainte-Marie. Approximately 650 of Advantech’s HIT-W101LP and HIT-W183 multifunctional devices integrated with MultiMed software, an Android-based multimedia platform, were deployed in these hospital to serve as bedside infotainment terminals. With the inclusion of MultiMed software, Advantech’s HIT terminals offered an innovative turnkey solution that enables patient access to entertainment, hospital information, and services, as well as staff access to medical data at patient bedsides for improved service efficiency and patient satisfaction.

Chongqing PSK-Health Builds EECP Devices Using HIT-W153 Terminals
Based in China, Chongqing PSK-Health Sci-Tech Development Co., Ltd. (PSK-Health) is a builder of innovative medical equipment. To design premium enhanced external counterpulsation (EECP) devices, PSK-Health selected Advantech’s HIT-W153 terminals because of their excellent EMI suppression capabilities. Compliant with IEC 60601-1 standards for medical safety, HIT-W153 not only ensures safe operation but also minimizes time-to-market by ensuring compliance with international healthcare regulations. Furthermore, the customizable software and hardware ensures that HIT-W153 can satisfy a wide range of application requirements. Using HIT-W153 terminals, PSK-Health was able to develop an EECP device that conformed to ISO 13485, U.S. FDA, and EU CE regulations.

En Chu Kong Hospital Implements HIT-W101 and HIT-W183 as Multifunctional Devices for Ward Care Applications
As a regional teaching hospital located in New Taipei City, Taiwan, En Chu Kong Hospital is committed to using advanced technologies to enhance healthcare quality. In order to improve communication between medical staff and patients, En Chu Kong Hospital implemented Advantech’s intelligent ward solution, which integrates healthcare terminals and communication software. Equipped with diverse APIs and SDKs, Advantech’s HIT-W101 and HIT-W183 terminals were easily integrated into the hospital’s existing systems and can function as either nursing station terminals or patient bedside terminals. Moreover, with the installation of Advantech’s WISE-DeviceOn remote management software, the terminals can be automatically upgraded, maintained, and monitored remotely.
## Specifications

<table>
<thead>
<tr>
<th>HIT-507</th>
<th>HIT-W101</th>
<th>HIT-512</th>
<th>HIT-W153</th>
<th>HIT-W183</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Processor</td>
<td>Intel® Celeron® J3455 (2M cache, up to 2.3 GHz)</td>
<td>Freescale® ARM® iMX6 Cortex-A9 quad core (1 GHz)</td>
<td>Intel® Pentium® N4200 (2M cache, up to 2.5 GHz)</td>
<td>Intel® Pentium® N4200 (2M cache, up to 2.5 GHz)</td>
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<tr>
<td>Memory</td>
<td>4 GB DDR3L (up to 8 GB)</td>
<td>2 GB DDR3L (up to 4 GB)</td>
<td>4 GB DDR3L (up to 8 GB)</td>
<td>4 GB DDR3L (up to 8 GB)</td>
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<tr>
<td>Storage</td>
<td>1 x M.2 2242 SSD</td>
<td>1 x M.2 2242 SSD</td>
<td>1 x M.2 2242 SSD</td>
<td>1 x M.2 2242 SSD</td>
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<tr>
<td>Camera</td>
<td>5 Megapixel</td>
<td>2 Megapixel</td>
<td>2 Megapixel</td>
<td>5 Megapixel</td>
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<tr>
<td><strong>Display</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>7&quot; (16:9)</td>
<td>10.1” (16:10)</td>
<td>11.6” (16:9)</td>
<td>15.6” (16:9)</td>
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<tr>
<td>Max. Resolution</td>
<td>1024 x 600</td>
<td>1280 x 800</td>
<td>1366 x 768</td>
<td>1920 x 1080</td>
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<td>Brightness</td>
<td>400 cd/m²</td>
<td>400 cd/m²</td>
<td>250 cd/m²</td>
<td>500 cd/m²</td>
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<tr>
<td>Contrast Ratio</td>
<td>800:1</td>
<td>1300:1</td>
<td>88%</td>
<td>88%</td>
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<td>Touchscreen</td>
<td>Projected capacitive</td>
<td>Projected capacitive</td>
<td>Projected capacitive</td>
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<td><strong>I/O Ports</strong></td>
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<td>USB</td>
<td>2 x USB 3.0</td>
<td>1 x USB 2.0 type A, 1 x mini USB 2.0</td>
<td>2 x USB 3.0</td>
<td>1 x USB 3.0 (rear), 2 x USB 2.0</td>
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<td>HDMI</td>
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<td>Yes (optional)</td>
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<td>Smart Card Reader</td>
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<td>-</td>
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<td>1 (with optional secondary reader)</td>
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<tr>
<td>RFID</td>
<td>Yes (optional)</td>
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<td>SD Card Reader</td>
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<td>1 x Micro SD slot</td>
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<td><strong>Audio</strong></td>
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<tr>
<td>Speaker</td>
<td>1 x 2W</td>
<td>1 x 3W</td>
<td>2 X 2W</td>
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<tr>
<td>Internal Microphone</td>
<td>1 (via TRRS)</td>
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<td>1 (via TRRS)</td>
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<td><strong>Network</strong></td>
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<tr>
<td>LAN</td>
<td>1 x RJ45 (10/100/1000 Mbit) with optional PoE</td>
<td>1 x RJ45 (10/100/1000 Mbit) with optional PoE</td>
<td>1 x RJ45 (10/100/1000 Mbit) with optional PoE</td>
<td>2 x Isolated RJ45 (10/100/1000 Mbit)</td>
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<td>802.11 a/b/g/n, Bluetooth 4.1</td>
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<td>802.11a/b/g/n, 802.11b/g/n, Bluetooth 4.1</td>
<td>802.11a/b/g/n, 802.11b/g/n, Bluetooth 4.1</td>
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<tr>
<td><strong>Software</strong></td>
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<tr>
<td><strong>Function Keys</strong></td>
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<tr>
<td>Hotkey</td>
<td>1 x Power button</td>
<td>1 x Reset button</td>
<td>1 x Power button</td>
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<tr>
<td><strong>Nurse Call Button</strong></td>
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<td></td>
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<tr>
<td>Hotkey</td>
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<tr>
<td><strong>Emergency Alarm</strong></td>
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<tr>
<td>LED Indicator</td>
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<tr>
<td><strong>Mechanical</strong></td>
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<tr>
<td>Mount Options</td>
<td>VESA 75 x 75</td>
<td>VESA 75 x 75</td>
<td>VESA 75 x 75</td>
<td>VESA 75 x 75</td>
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<tr>
<td>Dimensions (W x H x D)</td>
<td>193.3 x 140.9 x 37 mm/ 7.61 x 5.54 x 1.45 in</td>
<td>247 x 189 x 22 mm/ 9.72 x 7.44 x 0.86 in</td>
<td>296 x 190 x 33.4 mm/ 11.65 x 7.48 x 1.31 in</td>
<td>400.1 x 273 x 43 mm/ 15.75 x 10.74 x 1.69 in</td>
</tr>
<tr>
<td>Weight</td>
<td>1 kg/2.2 lb</td>
<td>0.75 – 1 kg/1.65 – 2.2 lb</td>
<td>1.2 kg/2.64 lb</td>
<td>3.2 kg/7.05 lb</td>
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<td><strong>IP Rating</strong></td>
<td>Front Panel</td>
<td>IP54</td>
<td>IP65</td>
<td>IP65</td>
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<tr>
<td><strong>Certifications</strong></td>
<td>EMC &amp; Safety</td>
<td>CE/FCC, CB, UL, ITE &amp; Medical IEC 60601 &amp; IEC 62368, CCC</td>
<td>CE/FCC, CB, UL, ITE &amp; Medical IEC 60601 &amp; IEC 62368, CCC</td>
<td>CE/FCC, CB, UL, ITE &amp; Medical IEC 60601 &amp; IEC 62368, CCC</td>
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<tr>
<td>Power Supply</td>
<td>Input Voltage</td>
<td>100 ~ 240V, 1.1 – 0.45A @ 47 ~ 63 Hz</td>
<td>100 ~ 240V, 1.1 – 0.45A @ 47 ~ 63 Hz</td>
<td>100 ~ 240V, 1.1 – 0.45A @ 47 ~ 63 Hz</td>
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<tr>
<td>Output Voltage</td>
<td>ITEMedical 12VDC, 3A</td>
<td>ITE 12VDC, 3A</td>
<td>ITEMedical 12VDC, 3A</td>
<td>ITEMedical 18 ~ 19VDC, 3.42A</td>
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<tr>
<td><strong>Accessories</strong> (Optional)</td>
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<tr>
<td>Handset</td>
<td>Yes (via add-on module)</td>
<td>Yes (via add-on module)</td>
<td>Yes (via add-on module)</td>
<td>Yes (via add-on module)</td>
</tr>
<tr>
<td>Barcode Scanner</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>TV Tuner</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>MSR</td>
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<tr>
<td>Arm Support</td>
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<td>Wall/ceiling mounted</td>
<td>Wall/ceiling mounted</td>
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<tr>
<td>Table Stand</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Note: Specifications and availability may vary depending on the model and region.*
HIT Series Accessories

Noise-cancellation headset for clear communication

Smart card reader for fast identity verification

Ergonomic stand for convenient installation

Movable arm mount for easy operation

Rich Peripherals for High Scalability

Regional Service & Customization Centers

Worldwide Offices

Greater China

China
- Toll Free: 800-810-0345
- Beijing: 86-10-6298-4346
- Shanghai: 86-21-3632-1616
- Shenzhen: 86-755-212-4222
- Chengdu: 86-28-8545-0198
- Hong Kong: 852-2720-5118

Taiwan
- Toll Free: 0800-777-111
- Neihu: 886-2-2792-7818
- Xindian: 886-2-2218-4567
- Taichung: 886-4-2378-6250
- Keelung: 886-7-229-3600

Asia Pacific

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- Toll Free: 0800-500-1055
- Tokyo: 81-3-6802-1021
- Osaka: 81-6-6267-1887

Korea
- Toll Free: 080-363-9494
- Seoul: 82-2-3663-9494

Singapore
- Singapore: 65-6442-1000

Malaysia
- Toll Free: 1800-88-1809
- Kuala Lumpur: 60-3-7725-4188
- Penang: 60-4-537-9188

Thailand
- Bangkok: 66-2-248-3140

India
- Toll Free: 1800-425-5070
- Bangalore: 91-80-2545-0206

Indonesia
- Jakarta: 62-21-769-0525

Australia
- Toll Free: 1300-308-531
- Melbourne: 01-3-9797-0100
- Sydney: 61-2-9476-8300

Europe

Germany
- Toll Free: 00000-2426-8080
- Munich: 49-89-12599-0
- Düsseldorf: 49-2103-97-855-0

France
- Paris: 33-1-4119-4666

Italy
- Milano: 39-02-9544-961

Benelux & Nordics
- Breda: 31-76-5233100

UK
- London: 44 (0)20 8317 1380

Poland
- Warsaw: 48-22-33-23-740 / 41

Russia
- Toll Free: 8-800-555-01-50
- Moscow: 7-495-232-1892

Spain
- Madrid: 34-91-668-86-76

Sweden
- Stockholm: 46 (0)-64 60 500

Ireland
- Galway: 353-91-792444

Czech Republic
- Ústí nad Orlicí: +420-465-52-44-21

Americas

North America
- Toll Free: 1-888-578-9668
- Cincinnati: 1-513-742-8895
- Milpitas: 1-408-519-3808
- Irvine: 1-949-420-2500

Brazil
- Toll Free: 0800-770-5355
- Saude-São Paulo: 55-11-5592-5355

Mexico
- Toll Free: 1-800-467-2415
- Mexico City: 52-55-6275-2777

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