Healthcare systems around the globe are experiencing tremendous pressure to improve services while containing costs. There is a trend towards real-time, paperless and film-free patient monitoring, nursing care and medical record tracking. The complexity and diversity of clinical environments requires advanced yet flexible technology, the ability to quickly adapt and customize, and a high level of integration and networking. There is a need for high-quality image display products for x-ray, ultrasound, surgery monitoring systems, endoscope visualization as well as a variety of medical information systems.

Sophisticated information technologies are required to manage patient information, diagnostics procedures, conduct research, and analyze and interpret lab results. Health and medical informatics experts are planning the next generation of patient management and medical support systems, and they rely on advanced yet reliable technology, high-performance yet power-efficient solutions, expertise in project management and systems integration, and a wide range of certified products.

Medical, clinical and healthcare settings have unique requirements in terms of sealing, thermal and acoustic properties, electromagnetic interference control, longevity, certification, and adherence to strict rules and regulations. Certifications, in particular, play a crucial role in today’s accelerated thrust towards national Electronic Medical Records (EMR) systems.

**Experience in the Medical Market**

Advantech success and reputation in the medical market is built on solid design, unmatched support, and vast manufacturing experience. Advantech has been working with the world’s largest medical technology providers for many years, and has gained unparalleled experience in the medical market segment. We have a full roster of medical products to fit all requirements, R&D teams dedicated to medical technology research and implementation, extensive customization capabilities, and a global sales and service organization that guarantees rapid time-to-market and dedicated local support.

Advantech has been a leader in providing a wide range of certified computing systems and services for the medical market for over a decade. Advantech works closely with regulatory agencies, minimizing time to market by examining compliance and regulatory requirements as well as providing consulting and testing services to ensure products are in compliance with global healthcare market regulations.

**Experience in the Medical Market**

Experience is crucial in the medical market that requires a high degree of technical and scientific expertise as well as detailed knowledge of pertaining regulations and requirements. Advantech has over a decade of experience in all levels of the medical market.
Serving the Top-10 Global Medical Companies
As a leader in clinical information systems, preoperative systems, electronic patient record systems, point-of-care terminals, diagnostic displays as well as numerous other medical systems technologies, Advantech is a supplier to the top-10 global medical companies, leveraging our medical-grade computers and services expertise to provide superior healthcare technology.

ISO 13485 Certification
Now more than ever, proper certification is crucial for contract and bid qualifications. Advantech is ISO 13485 certified by the International Organization for Standardization, headquartered in Geneva, Switzerland. ISO 13485 sets quality standard for the design and manufacturing of medical devices.

Other Medical Certifications
Electronic products for use in medical settings must be designed for maximum safety, minimum electronic interference, and for superior reliability. They also must conform to UL60601 in the US and EN60601 in Europe. Advantech POCs are UL60601-1/EN60601-1 approved, making them ideal and secure point-of-care solution for patients and hospital practitioners.

Comprehensive Range of Medical Computing Solutions
Advantech provides systems integrators with a comprehensive lineup of medical and complementary products, embedded key components, and related services. This includes high performance systems as well as low-power solutions, advanced thermal engineering, drip- and dust-proof enclosures, medical safety approvals, fanless designs, and more.

Dedicated Medical R&D Team of Engineers
Unlike some of the competition, Advantech has its own dedicated medical R&D team of engineers with detailed knowledge of medical technologies and deliberate understanding of clinical environments, as we have cultivated this area over a decade. Understanding core technologies such as X-ray, ultrasound, patient monitoring, and various imaging systems as well as the clinical applications gives Advantech an edge in quick and cost-efficient project implementation and helps us stay at the very forefront of medical information technologies.

Strict Revision Control and Superior Design Reliability
As a Premier member of Intel's Embedded and Communications Alliance, Advantech provides the latest and most reliable products and technologies. To reduce revisions, all components are selected for longevity, and we offer full 10-year design change traceability. Before field trials, new designs pass over 200 tests, including functionality and reliability. We work with customers from requirement assessment to design and prototyping, validations, and finally production in a process with strict revision controls, advanced testing and inspection, and certified quality assurance, all geared towards flawless design reliability.

Customization Capability
As a global leader offering state-of-the-art embedded and industrial computing as well as a comprehensive eServices and solutions, Advantech has unsurpassed customization capability. This allows our customers to implement highly specialized medical and clinical solutions quickly and efficiently, taking advantage of Advantech's experience in thermal engineering, noise abatement, targeted performance and all other aspects of medical information technology.

Global Logistics—Local Support
As a multi-national company with thousands of employees and support in 91 major cities worldwide, Advantech is in the unique position of being able to provide comprehensive global logistics augmented by personalized local support.
Advantech’s medical computing solutions feature complete, high-performance systems, designed with the utmost care and quality to provide uninterrupted, mission-critical support for healthcare applications. Advantech medical computing systems are designed and built to meet the toughest of standards. They meet UL60601-1 and EN60601-1 regulations for medical safety; they have an IPX1 certification and drip-proof enclosures to protect against dust and water; and they are CCC certified for electronic product safety. Advantech provides long-term support for its medical systems; they are highly reliable, easy to install, and seamlessly integrate with existing systems.

### Point-of-Care Terminals
- Full range of 12”, 15”, 17”, 19” and 22” Point-of-Care terminals
- Hospital-fit enclosures
- IPX1 drip-proof standard approved
- Fully-integrated I/O for easy connectivity
- Optional 802.11 a/b/g/n wireless antenna and touchscreen

### Slim Point-of-Care Terminals
- 15”, 17” and 19” Point-of-Care slim series
- Fanless design with low audible noise
- IPX1 water resistant enclosures with IP65 dust-tight front panels
- Isolated design provides unique electric leakage protection for COM ports and LAN ports
- Optional 802.11 b/g/n wireless antenna and touchscreen

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**Characteristics**

**Expansion Slots**

- *Mini PCI: No*  
- *Mini PCI-E: Yes*  
- **Chipset**
  - POC-W211: Intel QM77  
  - POC-W181: Intel QM77  
  - POC-S198: Intel QM77

**CPU**

- Intel Core i7-2655LE Processor (3 M Smart Cache, 1.3GHz)
- Intel Core i7-2655LE Processor (3 M Smart Cache, 1.3GHz)

**Memory**

- 8 GB (up to 16 GB)

**Storage**

- One 2.5” SATA HDD

**Display**

- 19” TFT color LCD
- 19” TN Model
- Normally White

**Resolution**

- 1920 x 1080 (H x V)
- 1366 x 768 (H x V)

**Graphics**

- Integrated Intel HD Graphics

**WLAN**

- Integrated Wireless 802.11 a/b/g/n

**Battery**

- Support 0.5 hr backup operation

**Weight**

- 5.8 kg

**Certifications**

- CE: Yes
- FCC: Yes
- UL 60601-1: Yes
- CCC: No

**Environment**

- Temperature: 0 ~ 40°C (32 ~ 104°F)
- Humidity: 10 ~ 95% RH (non-condensing)
- Shock Resistance: 20G peak acceleration (11ms duration)
- Dimensions (W x H x D): 550 x 360 x 65 mm (21.65” x 14.17” x 2.56”)
- Weight: 6.9 kg

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**Slim Point-of-Care Terminals**

**Characteristics**

**Expansion Slots**

- *Mini PCI: No*  
- *Mini PCI-E: Yes*  
- **Chipset**
  - POC-W211: Intel QM77  
  - POC-W181: Intel QM77  
  - POC-S198: Intel QM77

**CPU**

- Intel Core i3-2340UE Processor (3 M Smart Cache, 1.3GHz)
- Intel Core i3-2340UE Processor (3 M Smart Cache, 1.3GHz)

**Memory**

- 4 GB (up to 8 GB)

**Storage**

- One 2.5” SATA HDD

**Display**

- 18.5” TN Model
- Normally White

**Resolution**

- 1920 x 1080 (H x V)
- 1366 x 768 (H x V)

**Graphics**

- Integrated Intel HD Graphics

**WLAN**

- Integrated Wireless 802.11 a/b/g/n

**Battery**

- Support 0.5 hr backup operation

**Weight**

- 5.8 kg

**Certifications**

- CE: Yes
- FCC: Yes
- UL 60601-1: Yes
- CCC: No

**Environment**

- Temperature: 0 ~ 40°C (32 ~ 104°F)
- Humidity: 10 ~ 95% RH (non-condensing)
- Shock Resistance: 20G peak acceleration (11ms duration)
- Dimensions (W x H x D): 550 x 360 x 65 mm (21.65” x 14.17” x 2.56”)
- Weight: 6.9 kg

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**Point-of-Care Terminals**

**Characteristics**

**Expansion Slots**

- *Mini PCI: No*  
- *Mini PCI-E: Yes*  
- **Chipset**
  - POC-W211: Intel QM77  
  - POC-W181: Intel QM77  
  - POC-S198: Intel QM77

**CPU**

- Intel Core i5-2410M Processor (3 M Smart Cache, 2.3GHz)
- Intel Core i5-2410M Processor (3 M Smart Cache, 2.3GHz)

**Memory**

- 4 GB (up to 8 GB)

**Storage**

- One 2.5” SATA HDD

**Display**

- 19” TN Model
- Normally White

**Resolution**

- 1920 x 1080 (H x V)
- 1366 x 768 (H x V)

**Graphics**

- Integrated Intel HD Graphics

**WLAN**

- Integrated Wireless 802.11 a/b/g/n

**Battery**

- Support 0.5 hr backup operation

**Weight**

- 5.8 kg

**Certifications**

- CE: Yes
- FCC: Yes
- UL 60601-1: Yes
- CCC: No

**Environment**

- Temperature: 0 ~ 40°C (32 ~ 104°F)
- Humidity: 10 ~ 95% RH (non-condensing)
- Shock Resistance: 20G peak acceleration (11ms duration)
- Dimensions (W x H x D): 550 x 360 x 65 mm (21.65” x 14.17” x 2.56”)
- Weight: 6.9 kg
Safety. Advantech provides long-term support for its medical systems; they are highly reliable, easy to install, and seamlessly integrate into new and existing hospital information system infrastructure.

### Patient Infotainment Terminals
- Medically-certified terminals with anti-bacterial housings and color customizable bezels
- Lightweight and slim design for easy deployment at bedside, wall mounting, and table side installations
- Many options to suit specific needs including telephone handset, remote controller, RFID, CCD, Wi-Fi connectivity, TV tuner and smart card reader

### Healthcare Infotainment Terminals
- All-in-one medical-grade computing systems with wide format, touch-based LCD panels
- Fanless design with low power consumption, operates noiselessly in the home
- Customizable programmable touch hot keys on the front panel
- Many options such as telephone handset, FRID, CCD, Wi-Fi connectivity, TV tuner or smart card reader

### Systems
- Optional 802.11 b/g/n wireless antenna and touchscreen
- Isolated design provides unique electric leakage protection for COM ports and LAN ports
- IPX1 water resistant enclosures with IP65 dust-tight front panels

### Slim Point-of-Care Terminals
- Full range of 12", 15", 17", 19" and 22" Point-of-Care terminals

### Advertorial

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