



# Intelligent Medical Solutions



[www.axiomtek.com](http://www.axiomtek.com)

# Intelligent Medical Solutions

Axiomtek has years of experience in developing medical computing solutions and has the ambition to fulfill the growing demands of the global medical device market. Axiomtek's medical computing solutions are fully customizable to suit the needs of a wide range of medical industry applications, with high-performance CPUs, extensive storage capabilities, rich I/O expandability, various form factors from board level to system integration, plus multiple safety and medical certifications. Our products and design services offer many benefits to our clients, who have chosen Axiomtek as their trusted partner to provide long-term expertise and complete product portfolio to support their complex, mission critical projects.



**Comprehensive Service**



**Highly Customizable Design**



**Compliant with ISO 13485/14971, EN 60601-1**



**High Quality**

## What make us unique

- From board-level to system-level customized design and integration services for the medical device market.
- International distribution network with worldwide standardized inventory control and tracking systems to ensure consistent quality and prompt delivery.
- With ISO 13485, ISO 9001 and ISO 14001 certifications, we are able to achieve high quality, cost-effective and on-time deliveries.
- RMA processing and technical support provided in Taiwan, Thailand, Malaysia, USA, China, Europe; no waiting for overseas support and repairs.
- The expert R&D team in Taiwan ready to assist with your project requests, plus offices and logistic centers in Europe, Asia, and the U.S. with technology partners in a variety of industries.



# Application Fields



**Queuing**



**Information Access and Communication**



**Medical Image Analyzing**



**Hospitalization/Registration**



**Outpatient Clinic**



**Medical Diagnostics**



**Payment**





**mBOX600**  
*High-Power Artificial Intelligence (AI) Medical Edge Computing System*

- Intel® Xeon® or 8th/7th Gen Intel® Core™ i7/i5/i3 processor
- 2 DDR4-2666 SO-DIMM slots, up to 64GB\*
- 1 HDMI 1.4 and 2 DisplayPort1.2
- 2 COMs and 2 GbE LANs supporting 4kV isolation
- 4 USB 3.1 ports
- One 2.5" SATA 3.1 SSD slot and M.2 Key M 2280 NVMe SSD slot
- 1 PCIe Mini Card slot, 1 PCIe x16 Gen3 slot

\*64GB of memory depends on SKU

**MPC103-845**  
*Featureless Medical Grade Touch Panel Computer*

- 10.4" XGA TFT LCD display with LED backlight
- Intel® Celeron® processor N3060
- 2 GbE LANs, 4 USBs and 2 COMs
- Plastic and IP65-rated front bezel
- Adjustable RS-232/422/485 setting via BIOS
- Certified with 4th EN 60601-1, CE and FCC



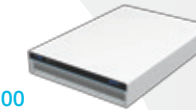
**mBOX100**  
*Artificial Intelligence (AI) Medical Edge Computing System*

- 8th/7th Gen Intel® Core™ i7/i5/i3 processor
- 2 DDR4-2666 SO-DIMM slots, up to 64GB\*
- 1 HDMI 1.4 and 1 DisplayPort 1.2
- 2 GbE LANs and 2 COMs supporting 4kV isolation
- 4 USB 3.1 ports
- One 2.5" SATA 3.1 SSD slot and M.2 Key M 2280 NVMe SSD slot

\*64GB of memory depends on SKU

**CEM510**  
*High-Performance COM Express Type 6 Module*

- Intel® Xeon® E3 and 7th Gen Intel® Core™ i7/i5/i3 processors
- 2 DDR4-2133 SO-DIMM slots, up to 32GB ECC or non-ECC
- 1 PCIe x16 and 8 PCIe x1 Gen3
- 4 SATA-600 slots with RAID 0/1/5/10
- 4 USB 3.0 and 8 USB 2.0 ports
- Supports Intel® AMT 11.0 and TPM 1.2



**mHPC200**  
*High-Performance Medical Computing System*

- Dual Intel® Xeon® Gold 6226R processors (2.9GHz, 22MB Cache 16 cores)
- 1 DDR4-2933 slot, up to 384GB ECC (12 x 32GB)
- 1 HDMI 1.4 port
- 1 network card supports dual 10GBASE-T & dual SFP+
- Two 1200W 1U AC/DC ATX power supplies
- One 256GB SATA SSD slot, one 6.4TB 2.5" PCIe NVMe U.2 SSD slot



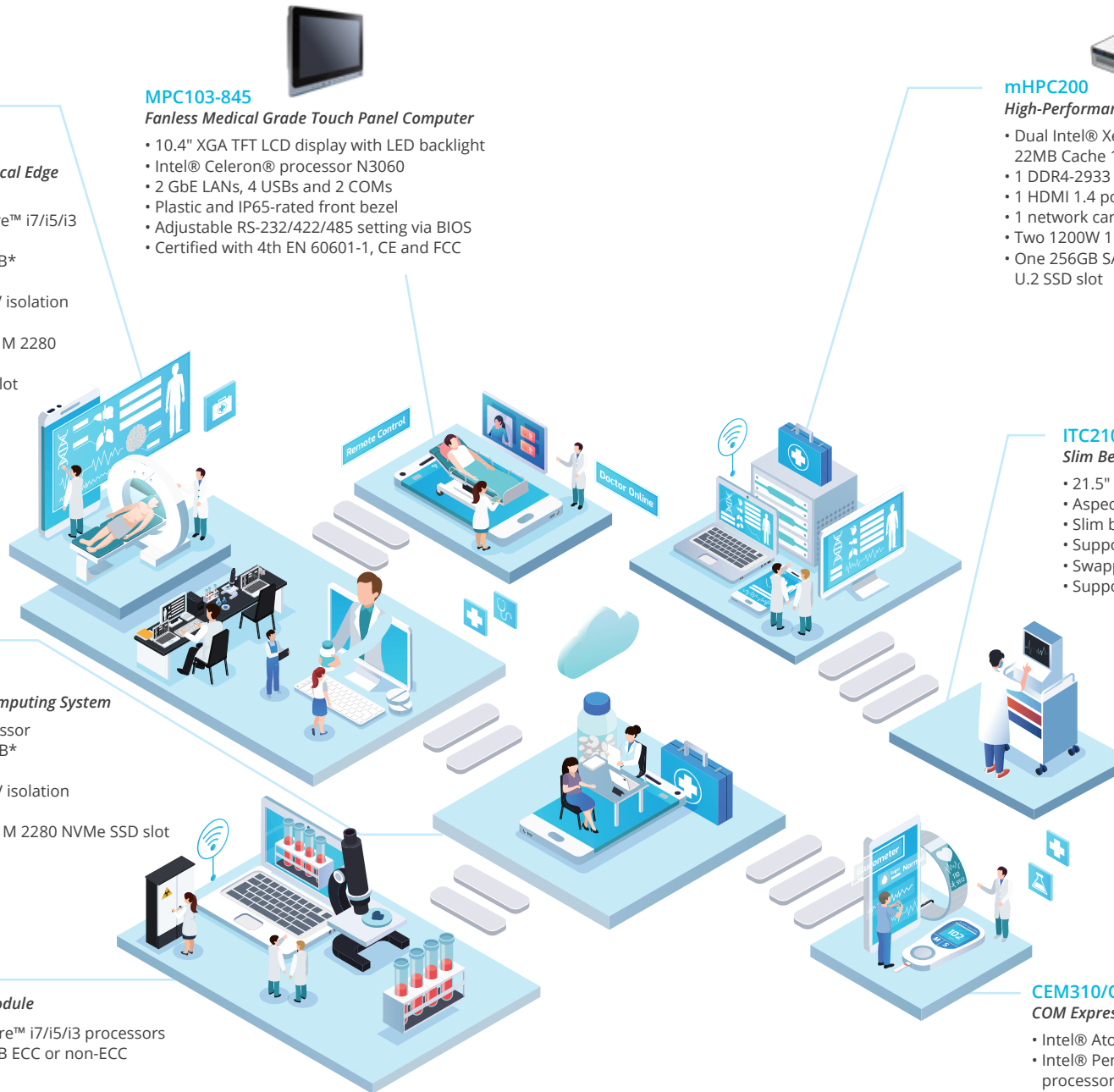
**ITC210**  
*Slim Bezel Modular Panel PC*

- 21.5" full HD TFT LCD
- Aspect ratio: 16:9; brightness: 250 nits
- Slim bezel with less than 48.5 mm width
- Supports PCAP with 10-point touch functionality
- Swappable Intel® SDM CPU card design
- Supports add-on modules and mounting kits (optional)



**CEM310/Q7M311**  
*COM Express Type 10 Mini Module & Qseven Module*

- Intel® Atom® x5 and x7 processors (CEM310)
- Intel® Pentium® processor N4200 and Celeron® processor N3350 (Q7M311)
- 4GB DDR3L memory onboard
- Up to 4 lanes of PCIe
- 2 SATA-600 slots
- 2 USB 3.0 and 8 USB 2.0 ports



# Healthcare Solutions with Axiomtek Products

## Design and Manufacturing Service

### Medical Diagnosis Devices

With immense experience and in-depth knowledge of developing medical devices, Axiomtek is able to provide customers with tailor-made design services and solutions to meet their unique needs.

*Applications: medical spectrometers for blood screening, aesthetic medicine devices, and more.*



## Medical Touch Panel PC Solution

### Medical Image Processing and Measuring Instruments

Axiomtek's medical panel PCs are fully customizable to suit the needs of a wide range of medical industry applications, featuring high-performance CPUs, extensive storage capabilities, rich I/O expandability, various form factor sizes, projected-capacitive multi-touch screen displays, plus multiple safety and medical certifications which are well suited for many medical applications.

*Applications: nursing carts, patient infotainment and point-of-care terminals, and more.*

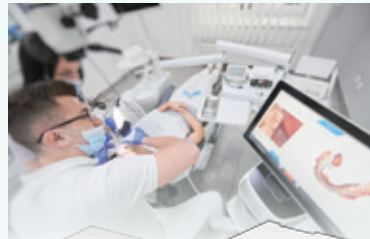


## Medical Imaging Solution

### Computer-Aided Diagnosis

Axiomtek's mBOX medical edge computing series is targeted at computer-aided diagnosis (CADx), which processes digital images for typical appearances and to highlight conspicuous sections, such as possible diseases, in order to offer input to support a decision taken by the professional.

*Applications: image processing and analysis, medical ultrasound, CT scan, X-ray machine, MRI machine, and more.*

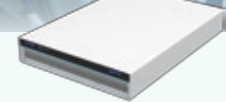


## Medical Computing Solution

### Predictive and Precision Medicine with Genomic Data

More and more medical applications are using AI technology to proceed with mass data analysis and accelerate data processing speed. It can be applied to the diagnosis, monitoring, and prediction of diseases using different imaging modalities.

*Applications: next generation sequencing fields, AI diagnosis, and more.*



## Drive Medical Transformation with Axiomtek AI-Enabled Computing Systems

### AI at the Edge: Intelligent Analysis of Medical Imaging Data

The growing implementation of artificial intelligence (AI) medical imaging systems has become a trend in the healthcare industry. AI technology gives medical hardware the ability to convert raw data to clinical insights, a key building block for developing intelligent medical devices of the coming future.

### Laboratory and Diagnostic Applications:



Diagnosis



Treatment



DNA Sequencing



Predictive Medicine



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