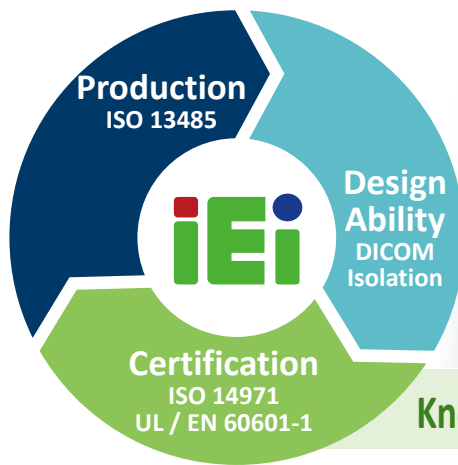




# IEI Smart Healthcare Solution

Population aging is becoming a worldwide phenomenon, and the requirements of health-caring are increasing. The World Health Organization (WHO) reports that 90% of seniors (US population) have at least one chronic disease, and 77% have two or more chronic conditions. That means the medical resources for the aging people could be predictably rising. Moreover, for providing better caring quality and managing all the clinical information electronically, the stable and ruggedized industrial panel PC is widely used in the clinic environment these years. The booming IoT industry also makes the medical applications smarter.

The medical panel PC developed by IEI completely meets users' needs and ergonomics. Highly modular design provides flexible applications in various situations; the light and slim design changes people's perception of the medical panel PC which is usually bulky. IEI Remote Intelligent System (iRIS) makes the medical products featuring IoT function. With the iRIS module, IT personnel can greatly enhance management, monitoring and maintenance efficiency in hospitals.



## Know-How for Healthcare Solution



### PDA

Highly integrated PDA with ruggedized IP 67 grade answers all data capturing needs on the field and promises to enhance productivity.



### Tablet

Lightweight and compact mobile touch medical tablet PC facilitates working procedures so that doctors can directly get patient information and record patients' condition at any time.

*Preliminary*



### Medical Embedded System

IEI provides high performance medical box computer with user friendly design. Its fan-less and cable-less concept not only ensures extended long-term usage but also brings more conveniences to the hospital personnel. Furthermore, rich I/O and expansion slots provide maximum flexibilities in the real-time situations.





### Bedside Terminal *Preliminary*

The all-in-one design which integrates smart card reader, RFID and high-brightness LED reading light facilitates nurses to streamline the working procedure.



### Medical Cart Computer

High-performance and high-quality all-in-one medical computers provide maximum efficiency for the medical environment, and are designed to be maintained with ease.



### 2D Barcode Reader

For fulfilling the demands of remote monitoring on healthcare, IEI provides a hand-held 2D barcode reader to expand and enhance function of medical cart computer for monitoring patient status.



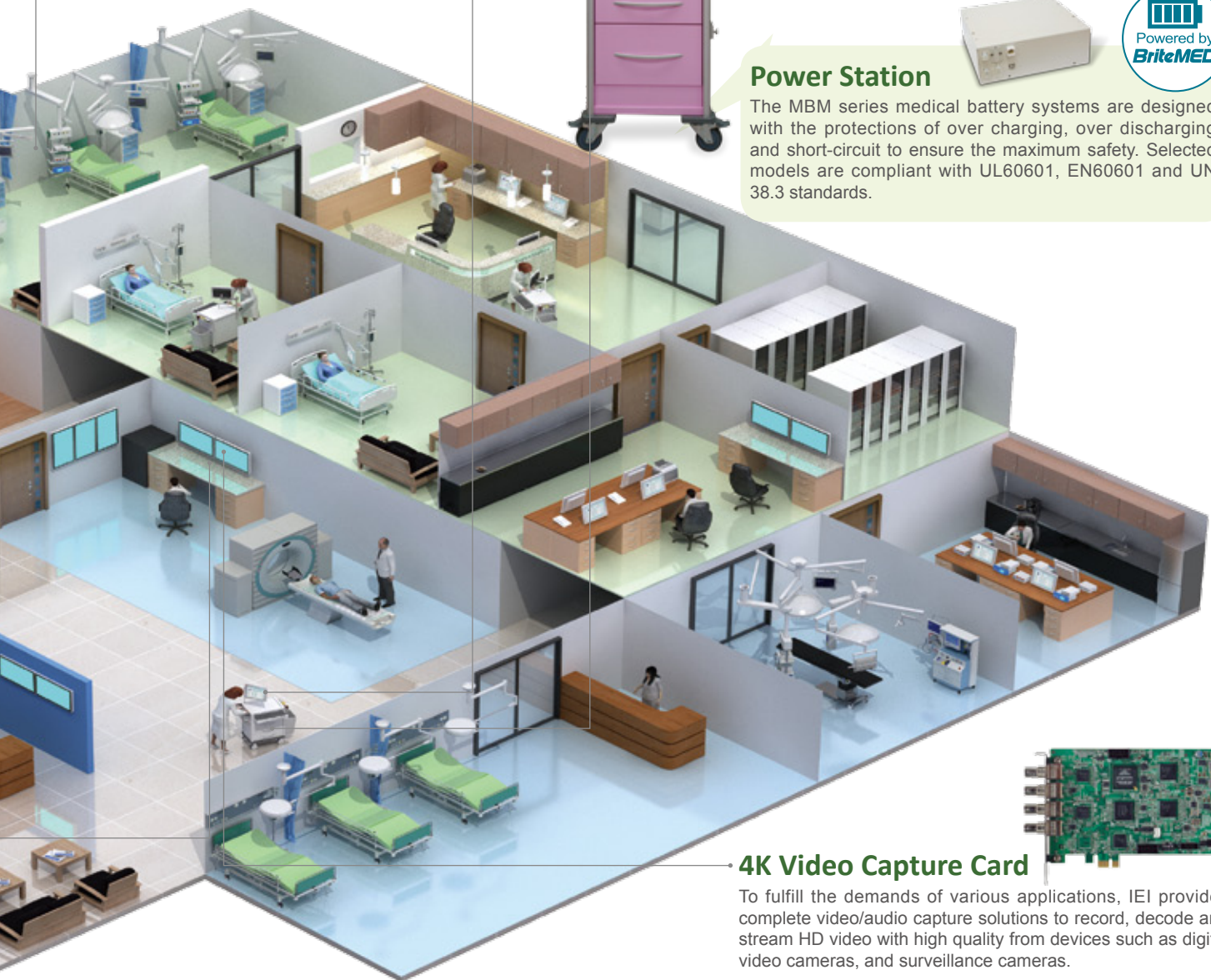
### Medical Cart

The E-Nursing Cart helps nurses perform their nursing processes efficiently, reduce transcription errors and even facilitate the speed of daily nursing workflow to further improve the service quality in hospitals.



### Power Station

The MBM series medical battery systems are designed with the protections of over charging, over discharging and short-circuit to ensure the maximum safety. Selected models are compliant with UL60601, EN60601 and UN 38.3 standards.



### 4K Video Capture Card

To fulfill the demands of various applications, IEI provides complete video/audio capture solutions to record, decode and stream HD video with high quality from devices such as digital video cameras, and surveillance cameras.





## The Reasons for Choosing IEI Healthcare Solution

### Conform to Medical Certificates

With many experiences in designing and developing medical products, IEI not only provides high quality products to our customers but also provides products compliant with ISO 13485, ISO 14971 and EN/UL 60601-1. The medical certifications ensure that the quality of the production process and the medical products meet medical device standards and medical electrical safety standards.



### Support Flexible Cooperation Pattern

IEI has been developing and manufacturing industrial computers for almost two decades and medical devices for more than 10 years. The services we provide to our customers are with high quality and long-term support. Furthermore, the flexible OEM/ODM cooperation pattern is also the option for customers to choose products that are best fit to their requirements.

### Provide Professional and Complete Solutions

Healthcare that was once given in hospitals is now provided in hospitals, homes or communities, and the healthcare providers could be doctors, nurses, care-givers or patients themselves. With extensive experiences in researching and developing medical devices, IEI can provide high quality services and professional suggestions to our customers for improving healthcare environment.

## Solutions

### All-in-one Medical Grade Panel PC

User-friendly-oriented design is always the core value of us. IEI all-in-one medical grade panel PC series offers three product lines to accommodate all healthcare needs. In addition, the products we designed support various communication functions, such as Bluetooth, 1D/2D barcode scanner, RFID, SCR and MSR. These units can provide clinician personnel conveniences and increase the working efficiency. The product lines we have as below:

- POC Series for point-of-care terminal
- BIS Series for bedside system



Medical Cart Computer  
POC-W22A



### Industrial Mobile Devices

IEI mobile series products help daily healthcare jobs become more flexible and convenient. The highly integrated mobile devices can be used in ward round, specimen tracking, medicine tracking, patient identification or ambulance application, etc. Both Windows and Android OS are supported in addition to Linux OS provided by our professional software team. The product lines we have are shown on the right.



PDA  
MODAT



Tablet  
ICECARE



Tablet  
ICEFIRE 2

### Medical Embedded System

As the leading embedded SBC provider, IEI continues to extend the product footprint from general purpose to vertical market. Our strong knowledge of market and technology innovation offers long-term support, high quality, reliable and flexibility for all of our products with choices of size, performance and feature for different applications. Our medical grade box PC can be used in operating room, nursing station, dialysis system or examination center, etc.



Medical Embedded System  
HTB-100

### Video Capture Solutions

IEI provides complete video/audio capture card solutions to fulfill the demands of various applications. The capture solutions can be used in endoscopy surgery, ultrasound scanner, microscope or thermography. We also provide complete software solutions such as software development kit (SDK), and flexible open architecture allowing easy integration of camera, video signal processing, storage, and video management/security.



4K Video  
Capture Card  
HSRC-302E

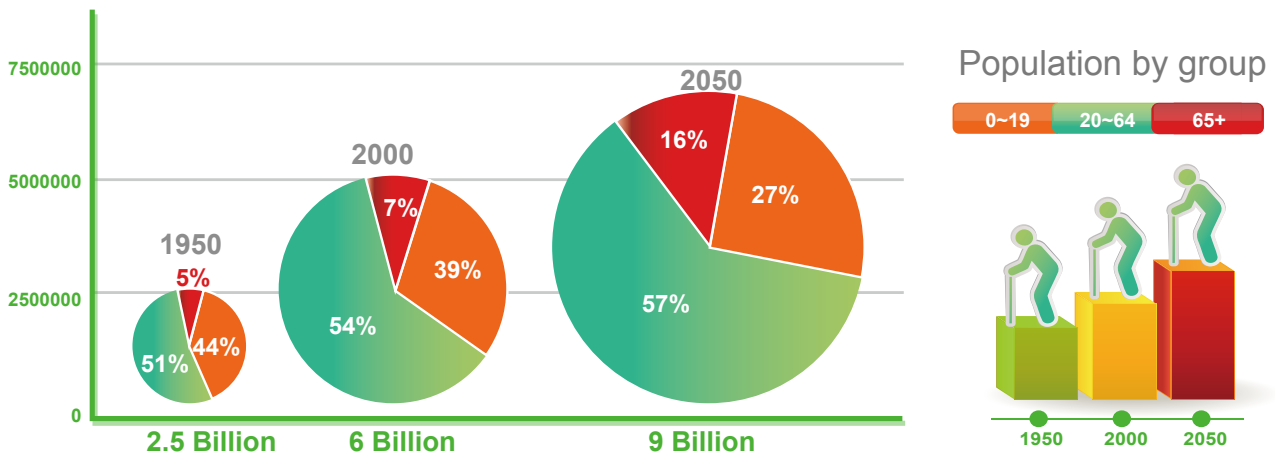
## Other Solutions

### IEI is going to expand the healthcare market to the population aging field!

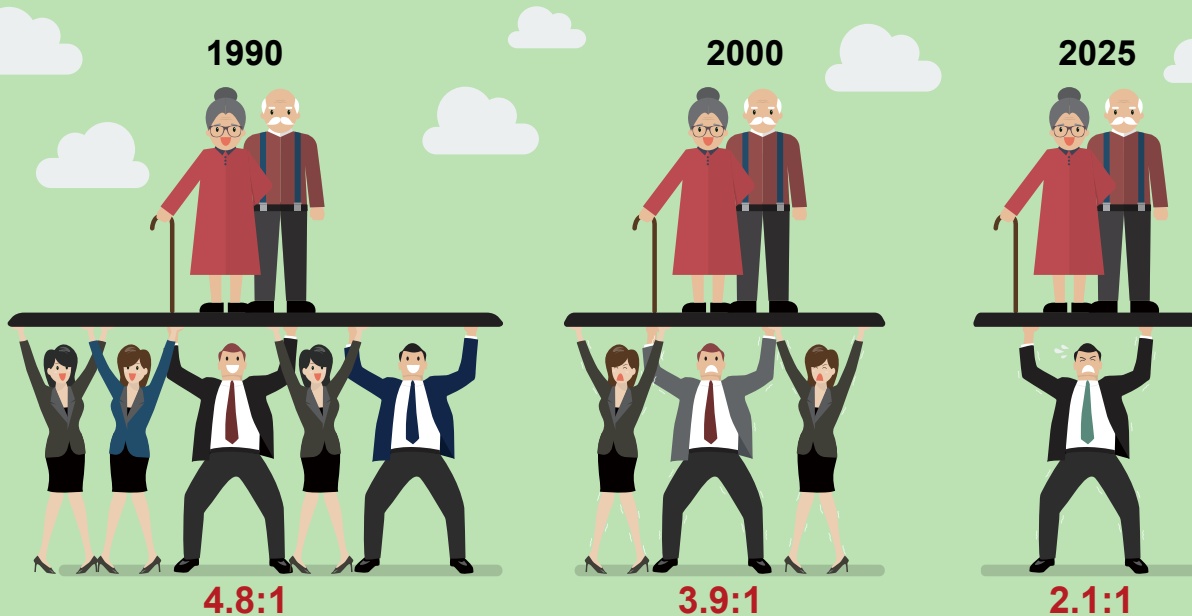
"The world's population is ageing: virtually every country in the world is experiencing growth in the number and proportion of older persons in their population." mentioned by World Population Aging 2015 edited by the Department of Economic and Social Affairs of the United Nations Secretariat. Population aging with implications for nearly all sectors of society, especially the healthcare from chronic diseases.

IEI provides the IoT Healthcare solutions for the aging society:

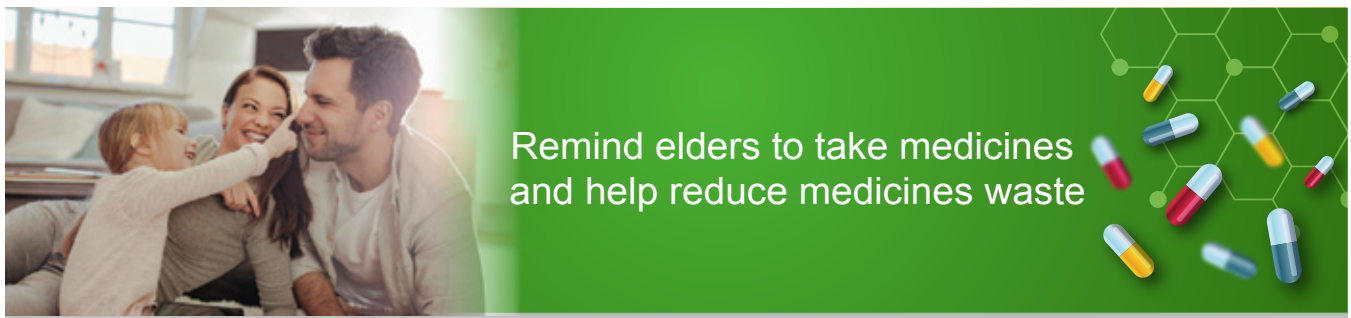
### Smart devices help simplify the elderly's life on health management



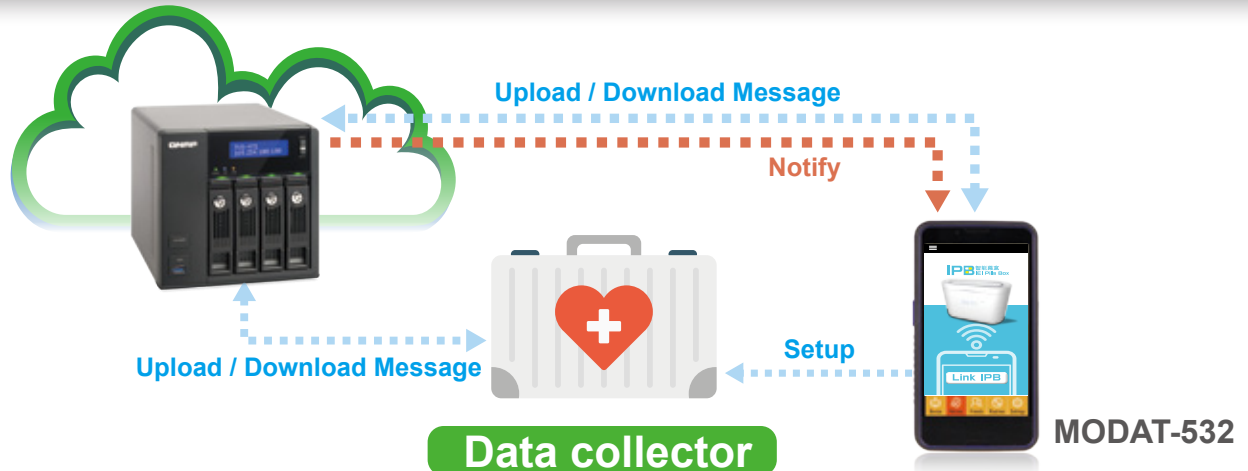
### Technical products help ease the society's burden caused by aging population and low fertility



## Telehealth/Telemedicine Solution (ODM Only)



Remind elders to take medicines and help reduce medicines waste



Smart gateway to collect health data

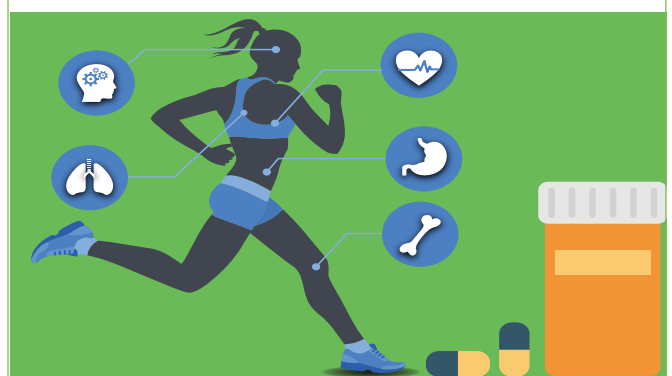
- Smart Hydration Bottles
- Smart Watch
- Smart Thermometer
- Smart Scale
- Blood Glucose
- ECG
- Blood Pressure Monitor

### For controlling health situations



As a result of changing our way of eating and living, and higher human expectancy, some chronic diseases are affecting people, such as heart disease, stroke, cancer, chronic respiratory diseases and diabetes. Thus, people may need to take medicines for controlling their health. Their health problems would become complicated if they forget to take the medicines. Patients need a reminder to simplify their health control process.

### For maintaining health situations



The health behaviors have changed. People in nowadays are taking more dietary supplements either every day or occasionally for gaining or maintaining their health. Today's dietary supplements include vitamins, minerals, herbals, botanicals, amino acids, enzymes, and many other products, the storage method and taking the various dietary supplements on time would be an issue to improve.



## QTS Gateway in the Hospital

### QTS Gateway Increases the Conveniences and Efficiencies for the Emergency Rooms!

Most of the nursing stations in the emergency rooms need at least dual systems to handle daily affairs: one is for HIS/NIS applications, the other is for diagnostic. It means a doctor needs two PCs which may occupy his/her working spaces.

