# **Clinical Mobility Solutions**

**Streamlining Frontline Reporting** 

Mobile solutions provide seamless communication at the point of care, streamlining productivity, improving quality, and increasing satisfaction.



### CPOETelemedicine Mobility Dicom Stage 7 EMR Mobile Vitals Collection Specialty Workflows Meaningful Use Closed-Loop Medication





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## **Clinical Mobility Enables Superior Care Quality**

Mobility is transforming current healthcare delivery methods. According to a report by IDC, clinical mobility spending will grow from \$2.9 billion in 2011 to \$5.4 billion in 2016, CAGR 12.7%. The seamless communication provided by mobile devices enhances collaboration among patients, doctors, nurses, carers, administration, and IT staff. This collaboration reduces time spent, improves workforce utilization, and reduces healthcare costs. Clinical mobility also facilitates rapid information delivery, which enables doctors to consult their peers without delay and make a critical diagnosis sooner. The continuing development of mobile health technology will drive improvements to healthcare quality for patients and working environments for hospital staff.

74% of clinicians expect to be utilizing the combination of a tablet, smartphone, and computer routinely in a professional capacity by 2015.



### More than 80%

of nurse practioners, physician assistants, and pharmacists contend that mobile device usage has led to improved patient care.

84%

of physicians surveyed had adopted an EHR in 2014, up from 72% in 2012.



Professional tasks clinicians most frequently conduct using a tablet

1.EHR/Notes/e-Prescribing



2. Search

35%

3. Access professional resources, such as Epocrates or Medscape



## Streamlining Frontline Reporting

The Internet of Things (IoT) enables hospitals to leverage cloud computing and transform the delivery of healthcare to include mobile devices, HIS systems, and the cloud. Advantech offers multiple clinical mobility solutions designed for IoT healthcare environments to increase productivity and accuracy in the patient care process.





Optimize patient infusion delivery with interoperability and real-time infusion status.



#### Communication

Mobile devices allow extensive collaboration among clinicians, nurses, and other hospital staff.



Use the tablet camera to capture or transmit photographs or data recordings.

#### CPOE/EMR

Readily available patient information and easy order entry using tablets allows doctors to continue their work without interruption.

### **Identity Check**

Confirm patient identity using the embedded barcode scanner.



With mobile devices, patients' vital sign data can be easily collected and rapidly uploaded to the hospital server.

#### Closed-Loop Medication

Scan barcodes on patient wristbands for medication safety checks.

Asset Management RTLS technology allows hospitals to track the location of

diverse devices and equipment.



## Introducing Next-Generation Clinical Mobility Devices

### **Clinical Tablets**

Advantech's MICA series products are specifically designed for hospital applications. They combine the best components in a lightweight and flexible package to ensure patient safety. Build intelligent hospitals with MICA series products.





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## MICA-051

#### 5" Android Pocket Pad

- Pocket-sized solution that fits in your hand
- •5" HD resolution LCD with P-cap multi-touch technology for enhanced user experience
- Equipped with an Intel<sup>®</sup> Atom<sup>™</sup> Z series processor
- Supports Android 4.2.2
- IP65-certified enclosure protects from dust and water and allows easy cleaning
- -20  $\sim$  60 °C wide temperature range
- Drop-tested at 120 cm to ensure reliable operation
- Features a 1D/2D barcode scanner and 8 MP camera w/ flash
- Lightweight, with a total weight of 295 g



### MICA-071 7" Win 8 Pocket Pad

- Pocket-sized solution that fits in your hand
- •7" HD resolution LCD with P-cap multi-touch technology for enhanced user experience
- Equipped with an Intel<sup>®</sup> Atom<sup>™</sup> Z series processor
- Supports Windows 8.1 Industry Pro
- IP54-certified enclosure protects from dust and water and allows easy cleaning
- Features a 1D/2D barcode scanner, 2 MP front camera, and 8 MP AF rear camera w/ flash

### MICA-102 10.4" Fanless Mobile Clinical Tablet

- Intel<sup>®</sup> Atom<sup>™</sup> processor supports a fanless and low-noise system
- Compact, lightweight, and rugged ergonomic design
- Sealed system is IP54-certified for dust and water tolerance
- P-cap multi-touch operation
- Built-in 5 MP camera with LED light
- Patient and asset identification using the integrated camera and RFID reader
- High connectivity with Wi-Fi and Bluetooth
- Optional image-based barcode scanner, webcam, and fingerprint reader

## Going Mobile at the Point of Care

### **Medical Carts**

Advantech's AMiS medical cart is a highly integrated computerized nursing cart that optimizes the patient care process by providing a mobile point-of-care station that is seamlessly integrated into a firstclass medical nursing cart.



## AMiS-30

#### Laptop-Ready Medical Cart

- The best solution for physician rounds and bedside documentation, particularly in emergency rooms and ICUs
- Can be integrated with a laptop or tablet to provide mobile healthcare solutions
- Easily transformed into a nursing or dispensing cart
- Can be upgraded with a long-life battery or additional accessories
- Multiple accessories fulfill diverse needs
- · Large wheels for mobility on various floor types

## AMiS-30i

#### Economic Computerized Medical Cart

- Can be integrated with an All-in-One (AIO) device and display to serve as mobile healthcare solutions
- The best solution for physician rounds and bedside documentation, particularly in emergency rooms and ICUs
- Easily transformed into a light nursing or dispensing cart
- Powerful battery system for an extended computer run time
- Large wheels for mobility on various floor types

### AMIS-50 Computerized Medical Cart

- Highly-integrated computerized medical cart for mobile
- healthcare solutions
- Motorized adjustment of table height available
- Designed for safety and reliability
- Large wheels for mobility on various floor types
- Powerful battery system for an extended computer run time



### AMiS-60 Computerized Medical Cart

- Highly-integrated computerized medical cart for mobile healthcare solutions
- Can be expanded to include an additional medication and/or storage box
- Ergonomic design for ease of use, cleaning, and moving
- Great flexibility for customization, configuration, and integration
- Designed for safety, reliability, and easy maintenance
- Elegant and tidy design and easily adjustable table height
- Long battery life increases manageability