Why ONYX?
ONYX Healthcare USA, Inc. is a 100% medically focus subsidiary company of ASUS Group (Revenue: US$ 17B+) with 15 plus years of medical device design experiences and ISO13485/ISO9001/FDA Registered manufacturing practices.

- One Stop Shop Service: HW + SW Turnkey Solution
- Infection Control: Fanless Design, IP65
- EHR Software Friendly: Epic, Cerner, NextGen, etc.
- Safety Certification: EN/UL60601, CE/FCC Class B
- Workflow Improvement: Mobile EHR, Telemedicine & Patient Engagement
- Product Longevity: 5 – 7 Years
- Standard Warranty: 3 Years
- Extended Warranty: 5+ Years
- PACS Image Processing DICOM Compliant

Workflow improvements powered by ONYX:
Patient Ward, Nursing Station, Surgical Suite, Intensive Care Unit, Exam Room, Radiology, Administration Kiosk

Why do hospital/healthcare providers select ONYX solutions?

- Improve HCAHPS/Press Ganey Scores
- Compliant with Meaningful Use Requirements
- Cost Saving Mobile EHR Nursing Cart Upgrade
- DICOM Compliant Computing Platform for PACS
- Integrated Clinical Workflow & EHR Access
- Remote Consult and Telemedicine Implementation

Where are ONYX solutions used in hospitals today?

- Physician Clinic — MATE Physician DICOM Desktop
- PACS & Radiology — MATE Physician DICOM Desktop
- Mobile EHR — VENUS Mobile Nursing Workstation
- Telemedicine — VENUS Mobile Nursing Workstation
- Long Term Care — ONYX Patient Infotainment Terminal
- Nursing Station — ONYX Desktop Mount Nursing Kiosk
ONYX provides innovative Patient Centric Health and Medical Information Solutions by bundling Patient Centric Solution software to communicate with and deliver information to patients and clinicians across different EHR platforms.

**MATE 22” Physician DICOM Desktop Workstation**

**Benefits:**
- Efficiency – Glove Operable Touch Control w/ Intel® Core™ i7 Fanless System Design
- Cost Saving – All-in-One Medical Workstation with DICOM Caliberation for PACS Processing
- EHR Software Friendly – Epic, Cerner, NextGen, PointClickCare, AllScripts, etc.
- Infection Control & Safety – Alcohol Wipe Safe + I/O Isolation for Patient/Device Safety

**Application Areas:**
- Patient Data Logging in Intensive Care Unit
- Procedure Protocol Retrieval
- Pre-Diagnosis Pre-Operation Preparation
- Vital Signage Monitor in Recovery

**ONYX 22” Wall/Desktop Mount Nursing Kiosk**

**Benefits:**
- Efficiency – Integrated Clinical Workflow & EHR Access
- Space Saving Deployment – Slim All-in-One Kiosk with Touch Access
- EHR Software Friendly – Epic, Cerner, NextGen, PointClickCare, AllScripts, etc.
- Infection Control & Safety – Alcohol Wipe Safe + I/O Isolation for Patient/Device Safety

**Application Areas:**
- Nursing Station/Pharmacy Kiosk
- Patient/Administration Kiosk
- Patient Ward Management Kiosk

**VENUS 22” Mobile Nursing/EHR/Telemedicine Solution**

**Benefits:**
- Mobility – 300g Light Weight Batteries and True Cable-less Medical Workstation
- Efficiency – 24/7 Run Time w/ Hot Swappable Batteries On-The-Go
- Universal Compatibility – Instant Cart Mobility Upgrade without New Cart Purchase
- Telemedicine – Turnkey Mobile Workstation with Tele-Counseling Capability

**Application Areas:**
- Mobile Nursing Cart
- Telemedicine Cart
- Medicine Dispensing Cart

**18.5” ONYX Patient Infotainment Terminal**

**Benefits:**
- Interactive Tele-Counseling Feature – Web Camera & VOIP Phone
- Access Control for Patient Privacy – Smart Card Reader & RFID
- Patient Infotainment & Satisfaction – Embedded Nurse Call & TV Streaming
- Telemedicine – EHR Software Friendly w/ Embedded Barcode Scanner

**Application Areas:**
- Patient bedside Infotainment
- Long-Term Care Patient Kiosk
- Pharmacy Tele-Counseling

**Hospital Benefits**
- Clinical Workflow Integration
- Improve HCAHPS Scores
- Improve Patient Satisfaction
- Enhanced Operational Efficiencies
- Secure Integrated Access to HIS

**Clinic Benefits**
- Medication Administration with RFID
- Direct Access to HIS
- Integrated Access to EHR
- Virtual Medical Office Access
- Remote Consult and Telemedicine

**Patient Benefits**
- Email and VOIP Call
- Intelligent Enhanced Nurse Call
- Dietary Management
- Multimedia Entertainment
- Communication Services
Reducing Hospital Readmissions with the Pharmacy of the Future

Powered by technology from Onyx and Intel, USF Health Pharmacy Plus* reinvents the pharmacy with smarter consulting and engagement.

Studies show that problems with medication account for a substantial portion of readmissions. The answer to preventing hospital stays may be at the pharmacy.

**Designing a Pharmacy for Smarter Care**

As hospital readmissions strain healthcare systems, pharmacies are rethinking the role they play in the connected healthcare workflow. Hospitals want to enable pharmacists to provide more informed counseling, while leveraging the pharmacy as a channel to encourage patients to be more proactive in their health. USF Health at the University of South Florida, Tampa, has digitally transformed its pharmacy with Onyx medical-grade all-in-one computing systems, powered by Intel® processors.

At USF Pharmacy Plus*, new Internet of Things (IoT) technologies allow patients to conduct follow-up visits via videoconference and real-time screen sharing with doctors. Robotic arms can automatically fill prescriptions, and pharmacists can connect to patient records to help avoid drug interactions or allergic reactions. This new generation of pharmacy is leading to fewer hospital readmissions, more satisfied patients, and a higher caliber of care.

**Pharmacies Key to Fewer Readmissions**

Hospital readmissions have become a costly problem for patients, healthcare systems, and insurers in the U.S. For Medicare patients alone, the cost of readmissions has climbed to roughly $26 billion annually, of which an estimated $17 billion could have been avoided with better post-discharge care.1 Adding to the pressure are penalties in the form of reduced payments from the Centers for Medicare and Medicaid Services (CMS) to hospitals with too many readmissions.2

An important, but often overlooked, step in preventing readmissions exists at the pharmacy. Studies show that problems with medication—patient nonadherence, adverse drug events, unintentional overdoses, and missing information—account for a substantial portion of readmissions. One study in particular found that patients with medication discrepancies had a 30-day hospital readmission rate of 14.3 percent, compared with 6.1 percent for patients without a discrepancy.3

By 2014, three-quarters of hospitals in the U.S. had adopted electronic health record (EHR) systems, which make patient records available to providers in real time.4 However, most pharmacies do not have access to EHR systems. It’s a missed opportunity for expertly trained pharmacists to avoid drug interactions, prevent allergic reactions, and offer better patient education to reduce other potential problems.
Better Engagement, Smarter Consulting

At the forefront of digital pharmacy innovation is USF Health. In 2015, the hospital system unveiled its Pharmacy Plus, a new model designed to help pharmacists provide better consulting, encourage patients to be more involved in their care, and enable patients to communicate more extensively with providers. At the core of the pharmacy's reinvention are Onyx medical-grade, all-in-one workstations, mobile nursing workstations, patient infotainment terminals, and medical-panel PCs powered by Intel processors.

To start with, Onyx solutions enable USF Health to feed its EHR system into Pharmacy Plus. Now prescriptions are automatically transmitted to the pharmacy and filled immediately. This process not only provides faster customer service, but also minimizes human errors and saves employee time. More important, pharmacists can access the EHR for additional information about patients, such as allergies or other conditions, on their physician workstations. This helps pharmacists provide better consultations or recommend medications that may lead to better outcomes.

To empower patient self-management, Pharmacy Plus added private patient-education stations. These stations feature the ONYX-BE182 patient infotainment terminal, which provides interactive, educational content for post-treatment and recovery guidance. In the pharmacy reception area, patients can conduct simple self-triage prior to their telemedicine visits using wearable devices that communicate with ONYX Venus mobile nursing workstations and ONYX-121/2112 slim patient kiosks.

Technology for Telemedicine

Telemedicine is growing as the healthcare industry looks for ways to improve value-based care. The global telemedicine market is expected to grow 14.3 percent each year as hospitals, practices, and pharmacies expand their scope of care. Traditional pharmacies, including CVS and Walgreens, have already launched telemedicine programs that are designed to educate and connect patients with health resources. Both chains are expanding their services in 2016.

With computing equipment specially designed for healthcare, Onyx makes it easier for pharmacies, clinics, and hospitals to extend their reach and boost patient satisfaction. The new Pharmacy Plus includes two private rooms where patients can conduct teleconsulting sessions with a doctor via an ONYX Smart View Medical Station. The stations feature integrated, high-definition, multipurpose diagnostic scopes that can capture images and collect readings with help from an on-site physician practitioner. These tools enable preliminary ENT, ultrasound, and dermatology exams, providing remote physicians with more information about the patient's condition.

In addition, pharmacists can teleconference directly with physicians on call for real-time joint counsel on treatment.

USF Health Pharmacy Plus* reimagines the roles of both the patient and the pharmacist in healthcare.
Designed for the Pharmacy
Onyx offers a full line of medical-grade computing platforms powered by Intel processors, including surgical workstations, medical panel PCs, bedside infotainment terminals, medical box PCs, medical tablets, mobile nursing workstations, and medical embedded motherboards.

ZEUS-227S Smart View Medical Station
At USF Health Pharmacy Plus, this 22-inch multitouch medical station is connected to a robotic arm that can quickly grab the right bottle of medication and automatically fill a prescription. Designed with fanless operation and an Intel® Core™ i7 processor, the medical station features a barcode reader for better tracking of drug dispensing and easy infection-control maintenance.

ONYX-2122 and ONYX-121 Slim Medical Patient Kiosks
These slim patient kiosks feature Intel® Atom™ processors and serve as point of sale and information terminals. Patients can conduct preliminary self-triage via wearable health devices that communicate with kiosks.

ZEUS-247 Smart View Medical Station
Pharmacy Plus’s tele-counseling platform delivers power performance with an Intel Core i7 processor, fanless design, and DICOM-compliant display for clinical-level images. Medical images and readings are captured and shared via real-time screen-sharing with physicians, while an integrated webcam facilitates counseling.

Venus Series Mobile Workstations
Onyx’s mobile nursing workstations feature Intel® Celeron® processors and are powered by built-in, hot-swappable batteries. These mobile workstations are ideal for hospital and long-term-care facilities that require a workstation-on-wheels with mobility and telemedicine capabilities.

ONYX Patient Infotainment Terminals
These terminals feature an Intel Celeron processor and provide interactive patient education, TV entertainment, and patient-side record access with security credentials.

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**Figure 1.** Onyx has developed a full line of medical computing equipment powered by Intel® processors.
Better Patient Outcomes
With smart computing designed for healthcare, next-generation pharmacies can improve patient outcomes and boost customer satisfaction. Telemedicine and computing stations that connect to EHR systems can help patients understand their medications and take them as prescribed, while enabling pharmacists to avoid adverse effects—and keep patients from returning to the hospital.

Learn More about IoT
For more information about Intel® IoT technologies, visit intel.com/iot.

To learn more about ONYX medical-grade computing solutions for healthcare, visit usa.onyx-healthcare.com.
22" ONYX Fanless Mobile EHR / Telemedicine Solution

OP-ONYX-WOW05H-2B
Mobile Nursing Workstation with Hot Swappable Batteries & Height Adjustable Cart

Features
- Intel® BayTrail J1900 Quad-Core Processor
- 22"(16:9) LED LCD Display
- 2 Hot Swappable Batteries with sBMS Control Tool
- 4KV Medical Isolated USB/COM/LAN Ports
- PIV Card Compatible
- Water-Proof & Light Weight & Fanless & Noiseless
- Embedded 2.0MP Webcam for Telemedicine
- 9V/12V/24V on-unit External power output (Optional)
- CE/FCC Class B, EN/UL60601-1 Medical Certification
- Lightweight Cart with Height Adjustment Capability
- Medical Washable Keyboard and Mouse

Specifications

VENUS-222ST-C2-1010 Mobile Nursing Workstation

Main Specifications

<table>
<thead>
<tr>
<th>Processor with Chipset</th>
<th>Intel® Celeron J1900 Quad Core 2.4Ghz</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Memory &amp; Storage</td>
<td>4GB DDR3 SODIMM &amp; 128GB SSD</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows® 7 Professional (32 bit &amp; 64 bit)</td>
</tr>
<tr>
<td>Security</td>
<td>Smart Card Reader, RFID (Optional)</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>Intel 802.11 a/b/g/n , Bluetooth 4.0</td>
</tr>
<tr>
<td>Speaker</td>
<td>2W x 2</td>
</tr>
<tr>
<td>Function Key</td>
<td>Power On/Off, LCD Brightness Up, LCD Brightness Down, Touch Screen On/Off, Reading Light On/Off</td>
</tr>
<tr>
<td>Camera</td>
<td>2 MP Front Camera, 4MP (Optional)</td>
</tr>
</tbody>
</table>

Display

| Size & Resolution      | 22 inch (16:9) & 1980 x 1020 |
| Max. Colors & Brightness| 16.7M & 250 nits with Light Sensor |
| View Angle & Contrast ratio | 178°(H) & 3000:1 |
| Touch Screen           | Projected Capacitive Multi-Touch |

I/O

| USB                    | 4KV Isolated USB 2.0 x 1 , USB 2.0 x 4, USB 3.0 x 2 |
| COM                    | 4KV Isolated RS-232 x 2 |
| Ethernet               | 4KV Isolated Gigabit LAN x 1 |
| Video Out              | Display Port x 1 |
| Audio                  | Mic-in x 1, Audio-out x 1 |
| External DC Output     | 9V/12V/24V (Optional) |

Mechanical and Environmental

| Operating Temperature  | 0°C ~ 40°C(32°F ~ 104°F) |
| Storage Temperature    | -20°C ~ 60°C(-4°F ~ 140°F) |
| Storage Humidity       | 10%~95% @ 35°C, non-condensing |
| Degree of Protection   | Front Panel IP-65 Certified, IP x 1 |
| System Cooling         | Fan-less |
| Net Weight             | 7.5kg (16.53lb) |
| Certification          | CE/FCC Class B, UL/EN 60601, PSE, RCM |

OP-TD-SV40 Height Adjustable Cart w/ KB and Mouse Tray

Main Specifications

| Height                 | 50.5" to 85.13" to Top of Work Surface |
| Max Carrying Load      | Up to 35 lbs |
| Max Tilt Angle         | +20° & -5° in a Static Tilt Test |
| Castors                | Ultra-Smooth Gliding 2x Free Running, 2x Locking |
| Turning Circle         | 30° Diameter |
| Mounting Options       | Front and Rear Channels Provide for Accessory Mountings |
| Cart Weight            | 59 lbs (Subjet to Configuration) |
| Compliance             | CE, UL/EN 60601 |
### 22” Mobile Nursing Workstation with Hot Swappable Batteries & Height Adjustable Cart

#### Dimension / Unit: mm

**VENUS-222**

**OP-TD-SV40**

### Accessories

- **OPM-P01C-03**
  6-Slot Battery Bank

- **OPM-P02C-02**
  2-Slot Battery Bank

- **OPM-P01T-02**
  2-Battery Pack

### Specifications

#### Main Specifications

**OPM-P01C-03**

- Power: Input: 24V ; Output: 10.4V / 11A
- Power Adaptor: 250W
- LED Indicator: Green light : Fully charge ; Blue light : Charging
- Battery Type: Lithium Battery
- Battery Charge Time: 2 hrs for 85%, 3hrs for 100%
- Certification: CE/FCC Class B, UL/EN 60601

**OPM-P02C-02**

- Power: Input: 24V ; Output: 10.4V / 11A
- Power Adaptor: 150W

#### Mechanical and Environmental

- Color: White
- Dimension: 304(L) x 135(W) x 40.5(H) mm
- Net Weight: 1350 g (2.97 lb)
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Storage Temperature: -20°C ~ 60°C (4°F ~ 140°F)
- Storage Humidity: 10%~95% @ 35°C, non-condensing

#### Battery Pack

- Battery Type: 3S2P / 6 Cell Lithium-ion battery
- Typical Capacity: 5800 mAh
- Nominal Voltage: 10.8 V
- Power Consumption: 150W
- Battery Run Time: 8 hr
- Life Cycle: 1000 Cycle
- Certification: CE/FCC Class B, UL/EN 60601

#### 6-Slot Battery Bank

- Color: White
- Dimension: 78(L) x 44(W) x 84(H) mm
- Weight: 300g
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Storage Temperature: -20°C ~ 60°C (4°F ~ 140°F)
- Storage Humidity: 10%~95% @ 35°C, non-condensing

### Ordering Information

- **OP-ONYX-WOW05H-2B**
  22” (16:9) Fanless Nursing Workstation w/ 2 Hot Swappable Batteries, Medical Grade Power Adapter & Power Cord, Height Adjustable Cart w/ Medical Keyboard and Mouse

- **OPM-P01T-02**
  2 Battery Kit, Li-ion 3S2P, 10.8V/5800mAh

- **OPM-P01C-03**
  6-Slot Power bank + Medical adaptor 24V/250W

- **Venus-222ST-C2-1010**
  22” (16:9) Fanless Nursing Workstation w/ 2 Hot Swappable Batteries, Medical Grade Power Adapter & Power Cord

- **OPM-P02C-02**
  2-Slot Power bank + Medical adaptor 24V/150W
**Physician All-in-One Desktop PC**

**MATE-2201ST-C1-1010**

22" Core i7 Touch Panel Physician All-in-One Desktop PC

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### Features

- Intel® Core i7-4770TE Dual Core 3.3GHz Processor
- 128 GB SSD
- DDR3 SODIMM 4GB
- 22" Full HD LCD with LED Backlight
- Capacitive Multi-Touch Screen
- High Speed USB 3.0 Ports
- Window 7 Professional
- White Color ID Design
- Smart Card Reader

### Specifications

#### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Core i7-4770TE Dual Core 3.3GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>Dual Channel DDR3 SODIMM 4GB</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® H81</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® XP, Windows® 7</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>128GB SSD x 1</td>
</tr>
<tr>
<td>Security</td>
<td>Trusted Platform Module, Smart Card Reader</td>
</tr>
<tr>
<td>Wireless Communication</td>
<td>802.11abgn, Bluetooth 4.0</td>
</tr>
<tr>
<td>Speaker</td>
<td>5W x 2</td>
</tr>
<tr>
<td>Function Key</td>
<td>Speaker Volume Up/Down, LCD Brightness Up/Down</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12~24V</td>
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</tbody>
</table>

#### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size / Type</td>
<td>22&quot; MVA LCD</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Luminance(cd/m2)(TYP)</td>
<td>250 nits</td>
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<tr>
<td>Viewing Angle</td>
<td>178°(H)/178°(V)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>3000:1</td>
</tr>
<tr>
<td>Back Light Life Time</td>
<td>30,000 Hours</td>
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<tr>
<td>Touch Screen</td>
<td>Capacitive Multi-Touch</td>
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</tbody>
</table>

#### I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>USB 2.0 x 4 (2 at the side), USB 3.0 x 2</td>
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<tr>
<td>Ethernet</td>
<td>Gigabit LAN x 2</td>
</tr>
<tr>
<td>Video Out</td>
<td>Display Port x 1 (Supports resolution up to 3840 x 2160), HDMI x 1 (Supports resolution up to 3840 x 2160)</td>
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<tr>
<td>Audio</td>
<td>Mic-in, Line-out</td>
</tr>
</tbody>
</table>

#### Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 35°C(32°F ~ 95°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C(-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting VESA</td>
<td>75/100 mm</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>Front Panel IP65 / Whole unit: IPx1</td>
</tr>
<tr>
<td>Net Weight</td>
<td>8.5kg (18.7lb)</td>
</tr>
</tbody>
</table>
22" Core i7 Touch Panel Physician All-in-One Desktop PC

Dimension / Unit: mm

Ordering Information

» MATE-2201ST-C1-1010
Medical Panel PC,i7-4770TE .22" LCD.DC 12~24V.Capacitive Touch.4GB RAM with Smart Card reader
How Long-Term Care Facilities Can Win Business

John Chuang and Scott Hopes of Onyx Healthcare USA, Inc., a solution provider at the marcus evans LTC & Senior Living CXO Summit Spring 2015, on being competitive as a LTC or senior living facility amid the changes in the healthcare industry.

Interview with: John Chuang, President & Scott Hopes, Chief Medical Officer, Onyx Healthcare USA, Inc.

FOR IMMEDIATE RELEASE

Long-term care (LTC) facilities are fighting for business in the healthcare sector, competing for hospital discharges. “The higher the level of care a LTC facility can provide and its ability to reduce readmissions to hospitals, the more valuable its service will be regarded and the volume of patients it receives from hospitals will increase,” according to John Chuang, President, and Scott Hopes, Chief Medical Officer, Onyx Healthcare USA, Inc.

Onyx Healthcare USA, Inc. is a solution provider for medical grade telemedicine and patient engagement IT solutions at the marcus evans LTC & Senior Living CXO Summit Spring 2015, in Los Angeles, California, February 9-10.

How is the LTC business and reimbursement changing today?

Hopes: With changes in healthcare financing, there is more focus towards clinical outcomes and quality of care. Hospitals are penalized if patients are readmitted within 30 days. LTC facilities are increasingly relied on as a partner in that care, as a patient transitions from the acute care hospital setting back home, with an intermediary or transitional stay in the LTC facility.

That brings numerous challenges, including communication with the clinical team and a higher degree of reliance on access to the patient’s medical record. The question is, how can they implement the necessary technologies despite capital funding constraints and actually deliver care that used to be delivered at the hospital level? We have an entire line of solutions for clinical connectivity and communication, including telemedicine and access to disparate electronic health records across facilities and care settings.

In this in-between role, why should they focus more on technology? How can they be a better link between acute care and the home setting?

Hopes: The technology to link the entire care organization has historically not existed. Unlike hospitals and physician offices, the LTC sector did not receive federal government incentive payments to implement Electronic Health Records (EHRs). That connectivity has not become the standard. To be a participant in the continuum of care, LTC must also be able to collect and access patient information.

Chuang: In addition, most of the technology deployed in facilities until recently was consumer electronics and not built to survive in a medical or healthcare environment. Many are having to deploy more advanced technology to be certified for the medical environment, both to be more reliable and for cyber security reasons.

Why do LTC facilities need telemedicine? How would that boost their bottom line?
Chuang: Patients can be closely followed up with the doctors who provided treatment at the hospital before they transitioned over to LTC. Instead of doctor on-site visits, that can be done through telemedicine technology, allowing the doctor to provide more care to more people.

Hopes: In the traditional LTC and post-acute care setting, there are periods when no physicians are in the facility. In the evenings and nights, there may only be a nurse. If someone has an acute event in that time, he or she will be transported to a hospital emergency room in an ambulance, and perhaps admitted. The next day, they may be transported back.

A physician evaluation needed at the time one was not available ends up costing the hospital USD 40,000 to 50,000 for a one-day stay. With telemedicine, a consultation could have been conducted and a clinical determination made, eliminating that costly transfer.

Chuang: Minimizing readmissions and penalties is key. This year, some Florida hospitals will receive a three percent reduction on their Medicare reimbursement for the entire year just because of readmissions. Thus, when a patient is readmitted, not only will the hospital not get paid for that return length of stay, which could be USD 50,000, but also the following year it will get a penalty on all Medicare payments for the year.

When LTC facilities are bundled into the financial payment for a particular episode of care, they can be exposed to additional cost. It will be the facilities that can offer this technology and EHR connectivity, where everyone is better informed about what care has or should be delivered, that will succeed.

Contact: Sarin Kouyoumdjian-Gurunlian, Press Manager, marcus evans, Summits Division
Tel: + 357 22 849 313
Email: press@marcusevanscy.com

About the LTC & Senior Living CXO Summit Spring 2015

The 8th Long-Term Care & Senior Living CXO Summit is the premium forum bringing senior level executives and solution providers together. The Summit offers an intimate environment for a focused discussion of key new drivers shaping the long-term care industry. Taking place at The Ritz-Carlton, Marina del Rey, Los Angeles, California, February 9-10, 2015, the Summit includes presentations on improving efficiency and profit margins, reimbursement management and strategy, catering for the baby boomers and reducing readmissions.

For more information please send an email to press@marcusevanscy.com or visit the event website marcus evans group – healthcare sector portal

Please note that the Summit is a closed business event and the number of participants strictly limited.

About Onyx Healthcare USA, Inc.

ONYX Healthcare USA, Inc. is a 100% medically focus subsidiary company of ASUS Group (Revenue: US$ 17B+) with 15 plus years of medical device design experiences and ISO13485/ISO9001/FDA Registered manufacturing practices. From hospitals to long term care facilities, ONYX focuses on providing turnkey telemedicine and patient engagement computing solutions such as surgical workstation, patient infotainment terminal, and mobile nursing workstation, and medical tablet to enhance workflow efficiency and patient experiences.

http://usa.onyx-healthcare.com

About marcus evans Summits

marcus evans Summits are high level business forums for the world’s leading decision-makers to meet, learn and discuss strategies and solutions. Held at exclusive locations around the world, these events provide attendees with a unique opportunity to individually tailor their schedules of keynote presentations, case studies, roundtables and one-on-one business meetings. For more information, please visit www.marcusevans.com

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# Healthcare Infotainment Solution

**ONYX-BE182DT-C2-1010**

**18.5" Bedside Infotainment Touch Terminal**

## Features

- Intel® J1900 2.42GHz Quad Core Processor
- 18.5" Wide Color TFT LCD Touch Terminal
- PCT for supporting Multi-Touch
- Wire Remote-Control w/ Handset Function
- VOIP Phone, Webcam, High Quality Speaker, MSR, Smart Card Reader
- Reading Light
- Extension Feature: RFID, Barcode Scanner
- IP65 Water Proof in front
- EN 60601-1, UL 60601-1

## Specifications

### Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Celeron J1900 Quad Core 2.42GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>Supports DDR3 SODIMM up to 8GB</td>
</tr>
<tr>
<td>Expansion Interface</td>
<td>Mini Card x 2</td>
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<tr>
<td>Storage Disk Drive</td>
<td>2.5&quot; SATA Hard Disk Drive/SSD x 1</td>
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<tr>
<td>Security</td>
<td>Trusted Platform Module, Smart Card Reader (optional), MSR (optional), RFID (optional)</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>Bluetooth 4.0 (optional), Bluetooth 4.0 (optional)</td>
</tr>
<tr>
<td>Speaker</td>
<td>1W x 2</td>
</tr>
<tr>
<td>Function Key</td>
<td>Speaker Volume Up/Down, LCD Brightness Up/Down</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12~24V</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows 7, Windows 8.1, Linux</td>
</tr>
<tr>
<td>Display</td>
<td>18.5&quot; (16:9) Color TFT LCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>1366 x 768</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M</td>
</tr>
<tr>
<td>Luminance</td>
<td>300 nits</td>
</tr>
<tr>
<td>View Angle</td>
<td>170(H)/160(U)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>MTBF</td>
<td>30,000 Hours</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Projected Capacitive Touch / 5-Wire Resistive Touch</td>
</tr>
<tr>
<td>I/O</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB2.0 x 4</td>
</tr>
<tr>
<td>Serial Port</td>
<td>Isolated RS-232 x 1</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Isolated Gigabit LAN x 2</td>
</tr>
<tr>
<td>Audio</td>
<td>Mic-in, Line-out</td>
</tr>
<tr>
<td>Infection Control</td>
<td>Anti-Bacteria (optional)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC 12V to 24V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C (32°F ~ 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75/100 mm</td>
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<tr>
<td>Degree of protection</td>
<td>Front Panel: IP65, Whole Unit: IPX1</td>
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<tr>
<td>Net Weight</td>
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</tr>
<tr>
<td>EMC</td>
<td>CE/ FCC Class B, UL 60601-1, EN60601-1</td>
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</tbody>
</table>

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www.onyx-healthcare.com
Achieving a Return on Investment from EHR Systems

Interview with: John Chuang, President & Scott Hopes, Chief Medical Officer, ONYX Healthcare USA, Inc.

An upcoming challenge for healthcare executives today is to ensure meaningful use compliance of their electronic health record (EHR) amongst their facilities as the non-compliance penalties become effective starting 2016, according to John Chuang, President, and Scott Hopes, Chief Medical Officer, at ONYX Healthcare USA, Inc.

“Over USD 30 billion has been spent on implementing EHRs in hospitals and physician practices, but as incentive payments end and penalties for not achieving Meaningful Use come into force, they must now see a clear improvement in clinical outcomes and productivity. They need to extract savings and efficiencies through the use of technologies,” Hopes suggests.

ONYX Healthcare USA, Inc. is a turnkey telemedicine and patient engagement solution provider at the marcus evans National Healthcare CFO Summit Spring 2015 and the National Healthcare CXO Summit Spring 2015, in Palm Beach, Florida, May 17-19.

Now that hospitals have implemented EHR systems, what steps should they take to achieve the desired, and intended, outcomes?

Chuang: Everyone has been so focused on implementing EHR systems that they have not paid enough attention to having a user-friendly human interface, to make sure healthcare professionals have easy access to all the different systems they put in place.

Hopes: This has been one of the shortcomings in the rapid implementation of EHRs. What has occurred is a productivity paradox. The systems that were intended to improve productivity have actually achieved the opposite.

Chuang: Healthcare organizations need a centrally managed physician and patient engagement turnkey computing solution, which is user-friendly and safe for the healthcare space, which can provide a single point-of-care easy access to all the different EHR/PACS/HIS systems within the facility.

How complicated is it to achieve such an alignment of EHR systems? Does this come down to hardware?

Chuang: We have come to realize that there is no simple out-of-the-box solution, where a hospital can just buy a few computers and get the desired outcome. It is critical that the technology provider understands the process flow in the healthcare space and has the capability to custom build its solution for the workflow that is unique to each hospital. Many healthcare consultants are familiar with the industry, but not current with the computing technology. On the other hand, many computing platform manufacturers who do not focus on the healthcare space have no insights into the healthcare process flow and dedicate no resources to provide purpose built solutions for each part of the workflow. In order to provide a true turnkey solution for each type of healthcare facility, it will require not only the proper hardware technology but also the appropriate software technology bundled with consulting service tailored towards each facility.

How are the disparate systems impacting results? What is the solution?

Hopes: We have disparate EHR and clinical data systems in this space. The lack of point of care access to EHR systems has resulted in a reduction in productivity. The key challenge is in getting physician utilization of the EHR in the hospital setting. Until they fully engage with the system in the hospital, it will be difficult to achieve efficiencies and improve clinical outcomes. That is a key requirement to getting a return on investment.

Currently, there is one system in the hospital and another in the physician’s office, which most likely the physician cannot access from the hospital. If other physicians are consulting on the case, there may be a third, fourth or even fifth EHR system, none of which talk with each other.

One of the solutions we have brought to the market is for physicians to access multiple EHR systems at the point of care, bring them on one page so they can make an informed clinical decision. The systems need to be readily accessible so physicians can access the information, give their treatment recommendation, and move on to the next patient. We cannot expect them to sit down at a desk or wheel a cart around.

With the current hardware and technology put into place in the majority of organizations, physicians have to navigate multiple pages on the system before they get to what they need to treat the patient.

The lack of point of care access to EHR systems has resulted in a reduction in productivity.
Wall/Desktop Mount Fanless Slim Medical Nursing All-in-One Kiosk
ONYX-2122DT-C5-1020
22" Dual Core Slim Medical Panel PC

Features

- Intel® Atom D525 1.8GHz Dual Core Processor
- 21.5" 250 nits LCD with LED backlight
- COM / LAN Medical 4KV Isolation
- 802.11 b/g/n Wireless LAN
- +12V to +24V Wide Range DC Input
- CE/FCC Class B, EN/UL60601-1 Medical Certification

Specifications

Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Atom D525 1.8GHz Dual Core Processor</td>
</tr>
<tr>
<td>System Memory</td>
<td>4GB DDR3 SODIMM</td>
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<td>Chipset</td>
<td>ICH8M</td>
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<td>Windows® 7 Professional</td>
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<td>Expansion Interface</td>
<td>Mini Card x 2</td>
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<td>Storage Disk Drive</td>
<td>250GB HDD</td>
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<tr>
<td>Wireless Communication</td>
<td>802.11b/g/n</td>
</tr>
<tr>
<td>Speaker</td>
<td>3W x 2</td>
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<tr>
<td>Power Requirement</td>
<td>DC 12~24V</td>
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Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Size</td>
<td>21.5&quot;</td>
</tr>
<tr>
<td>Resolution</td>
<td>1366 x 768</td>
</tr>
<tr>
<td>Maximum Colors</td>
<td>16.7M</td>
</tr>
<tr>
<td>Luminance</td>
<td>250 nits</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>170˚(H)/160˚(V)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>Back Light Life Time</td>
<td>30,000 Hours</td>
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I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>USB</td>
<td>USB2.0 x 6</td>
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<tr>
<td>Serial Port</td>
<td>4kV Isolated RS-232 x 2</td>
</tr>
<tr>
<td>Ethernet</td>
<td>4kV Isolated Gigabit LAN x 2</td>
</tr>
<tr>
<td>Video Out</td>
<td>VGA x 1</td>
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<tr>
<td>Audio</td>
<td>Mic-in, Line-out</td>
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</table>

Mechanical and Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>42 Watts (Full Loading)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C ~ 40°C (32°F ~ 104°F)</td>
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<tr>
<td>Storage Temperature</td>
<td>-20°C ~ 60°C (-4°F ~ 140°F)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75/100 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>14.1 lb. (6.4 kg)</td>
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<tr>
<td>Certification</td>
<td>CE, FCC Class B, UL60601-1, EN60601-1</td>
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</table>
Ordering Information

- **TF-ONYX-2122DT-C5-1020**
  21.5” Fanless Slim Medical Grade All-in-One Panel PC w/ Windows 7 Professional
  Intel® Atom™ D525 1.8GHz Processor, 4GB RAM, 250GB HDD USB(6), COM(2), Gigabit LAN(2), VGA(1), WIFI b/g/n, Power Adapter & Cord
ONXY-BE381DT-A1-1010
18.5" Cisco Compatible Bedside Infotainment Thin Client Touch Monitor

Features

- HD video quality with HDMI input
- 18.5 Wide Color TFT LCD Touch Monitor Light Weight
- PCT Touch for supporting Multi-Touch
- USB interface to host computer
- Light Weight at 3.2kg
- Wire Remote Control w/ handset Function
- VOIP Phone, Web Camera, High Quality Speakers, MSR
- Smart Card Reader / MSR
- Reading Light
- Alarm LED controlled thru USB
- Extension Features: RFID, Smart Card Reader, Barcode scanner
- EN60601-1 / UL 60601-1

Specifications

Main Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>18.5&quot; (16:9) Color TFT LCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>1366 x 768</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M</td>
</tr>
<tr>
<td>Luminance</td>
<td>300 nits</td>
</tr>
<tr>
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</tr>
<tr>
<td>Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>MTBF</td>
<td>30,000 Hours</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Projected Capacitive Touch / 5-Wire Resistive Touch</td>
</tr>
</tbody>
</table>

I/O

- Front USB: 2 x External USB2.0 on bottom I/O
- Rear USB: 2 x Rear USB2.0 for connecting Host computer
- Video in: HDMI / VGA x 1
- Front Audio: Speaker out x 1 and Microphone-in x 1
- Rear Audio: Audio-in x 1 and Microphone-in x 1
- Speaker: 2 x 2W High Quality Speakers
- Extension: 1D / 2D Barcode Scanner, VOIP Phone w/ wire remote control, Web Camera, MSR, RFID, Smart Card Reader

Mechanical and Environmental

- Power Consumption: Full Loading: 18Watts
- Infection Control: Anti-Bacteria (optional)
- Power Requirement: DC 12V ~24V
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Storage Temperature: -20°C ~ 60°C (-4°F ~ 140°F)
- Mounting: VESA 75/100 mm
- Degree of protection: Front Panel: IP65; Whole Unit: IPX1
- Net Weight: 3.2kg (7.05lb) (w/packing)
- Cross weight: 6.8kg (14.99lb) (w/packing)
- Dimensions(W x D x H): 721 x 224 x 464 mm
- EMC: CE / FCC Class B, UL60601-1, EN60601-1
18.5” Cisco Compatible Bedside Infotainment Thin Client Touch Monitor

**Dimension / Unit: mm**

- **Size**: 18.5” (16:9) Color TFT LCD
- **Resolution**: 1366 x 768
- **Max. Colors**: 16.7M
- **Luminance**: 300 nits
- **View Angle**: 170(H)/160(U)
- **Contrast Ratio**: 1000:1
- **MTBF**: 30,000 Hours
- **Touch Screen**: Projected Capacitive Touch / 5-Wire Resistive Touch

**I/O**

- **Front USB**: 2 x External USB2.0 on bottom I/O
- **Rear USB**: 2 x Rear USB2.0 for connecting Host computer
- **Video in**: HDMI / VGA x 1
- **Front Audio Speaker out**: x 1 and Microphone-in x1
- **Rear Audio**: Audio-in x 1 and Microphone-in x1
- **Speaker**: 2 x 2W High Quality Speakers

**Extension**

- **1D / 2D Barcode Scanner**
- **VOIP Phone** with wire remote control
- **Web Camera**
- **MSR**
- **RFID**
- **Smart Card Reader**

**Mechanical and Environmental**

- **Power Consumption**: Full Loading: 18Watts
- **Infection Control**: Anti-Bacteria (optional)
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- **Cross weight**: 6.8kg (14.99lb) (w/packing)
- **Dimensions**: (W x D x H) 721 x 224 x 464 mm
- **EMC**: CE/ FCC Class B, UL60601-1, EN60601-1

**Ordering Information**

- **ONYX-BE381DT-A1-1010**: 18.5” Infotainment Touch Monitor, HDMI Input, Resistive Touch, Reading Light, Web Camera, Smart Card Reader
- **ONYX-BE381DT-F1-1010**: 18.5” Infotainment Touch Monitor, HDMI Input, Reading Light, Resistive Touch, Web Camera, Smart Card Reader, RFID
- **ONYX-BE381DT-A2-1010**: 18.5” Infotainment Touch Monitor, HDMI Input, PCT, Reading Light, Web Camera, Smart Card Reader
- **ONYX-BE381DT-F2-1010**: 18.5” Infotainment Touch Monitor, HDMI Input, PCT, Reading Light, Web Camera, Smart Card Reader, RFID

**Optional Accessories**

- **1757306038**: 60W Medical Adapter, 3rd Edition, 12V Output
- **OPM-H04A**: ARM, Wall Mount, VESA 75/100, 1~7kg
- **OPM-T009-A1**: Handset and Wire Remote Control
- **OPM-T009-A2**: Handset and Wire Remote Control + 2D Barcode Scanner
- **OPM-S02C-A1**: MSR for BE381
- **OPM-H13A-A1**: Bedside Wall Mount Long Arm, 1~6kg, VESA 75/100
- **OPM-H15A-A1**: Easi Ceiling Mount Swivel Arm, 1~6kg, VESA 75/100