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MD101 10.1” Portable Medical Gateway

Do more than a tablet can do

10.1” Portable Medical Gateway

Features:

- Intel® Cherry Trail processor
- Slim & lightweight design for clinical mobility
- Long battery life for intensive care services
- Standard USB Type-A for easy connection to medical devices
- IP54 certified & 3 feet drop resistant
- ORION client compatible
- VESA mounting via adapter
- EN60601-1 & UL60601-1 Certified
- Ergonomic design adapted for portable and cart use

Specifications

Main Specifications

Processor	Intel® Cherry Trail QC Processor Z8350 1.44 GHz
System Memory	2 / 4 GB
OS Support	Microsoft® Windows 10
Storage	eMMC 64 / 128 GB
Wireless Communication	802.11 a/b/g/n+BT 4.0
GPS	u-blox NEO-M8Q
Gyroscope Sensor	Bosch BMG 160
Camera	2MP (Front) / 8MP (Rear)
Touchscreen	Projected Capacitive Touchscreen w/ Soda Lime Glass or Gorilla Glass
Accelerometer Sensor	Bosch BMC150
Ambient Light Sensor	Capella CM3218
Power Button	x1
Volume Keys	x2
Speakers	3W x2
Internal Mic	x1
Alarm Light	x1 (Optional)
Power Requirement	DC 15V

Display

Display Size	10.1” 16:10 Wide Screen LED Panel
Resolution	FHD 1920 x 1200
Max. Colors	16.7 M
Contrast Ratio	800:1
Luminance (cd/m2)	300 nits

I/O

USB	USB 3.0 (Type-A) x1
Audio Out / Mic In	3.5 mm Combo Audio Jack x1
Video Out	Micro HDMI x1 (Optional)
DC-In	x1

Battery Pack

Battery Type	Lithium-Ion
Battery Capacity	46.62 Wh
Battery Run Time	Approx. 8 hrs

Mechanical and Environmental

VESA	VESA 75 via cradle
Operating Temperature	-10° C ~ 55° C (14° F ~ 131° F)
Storage Temperature	-20° C ~ 60° C (-4° F ~ 140° F)
Storage Humidity	10%~95%@35°C, non-condensing
Dimension	260 (W) x 186 (H) x 23 (D) mm
Net Weight	Approx. 1 kg
Certification	CE/FCC Class B, UL60601-1, EN60601-1

Contact Information

Onyx Healthcare Inc.

2F., No.135, Lane 235, Pao Chiao Rd.,
Xindian Dist., New Taipei City 231,
Taiwan (R.O.C.)
Tel: 886-2-8919-2188
Fax: 886-2-8919-1699
E-mail: sales@onyx-healthcare.com

Onyx Healthcare EUROPE B.V.

Primulalaan 42, 5582 GL, Waalre,
The Netherlands
Tel: +31-(0)499-745600
E-mail: eusales@onyx-healthcare.com

Onyx Healthcare USA, Inc.

324 W. Blueridge Ave.,
Orange, CA 92865
Tel: +1-714-792-0774
Fax: +1-714-792-0481
E-mail: usasales@onyx-healthcare.com

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Streamlined Front-line Reporting for Vital Sign Data to the Cloud

On the Front Line

SAVING LIVES

MD101

www.onyx-healthcare.com

Not Just a Tablet A Dedicated Mobile Medical Assistant Optimized for Medical Environments

IOT Cloud

MD101 Key Features for Medical Environments

Compact and thin design saves workspace

Long lasting battery (4090mAh/46.62Wh) for 24/7 operation

Dedicated cradle design for instant release and easy cable management

Fanless design for long lasting silent operation

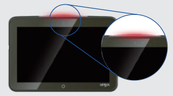
IP54 enclosure for easy cleaning and infection control

Robust chassis prevents damage

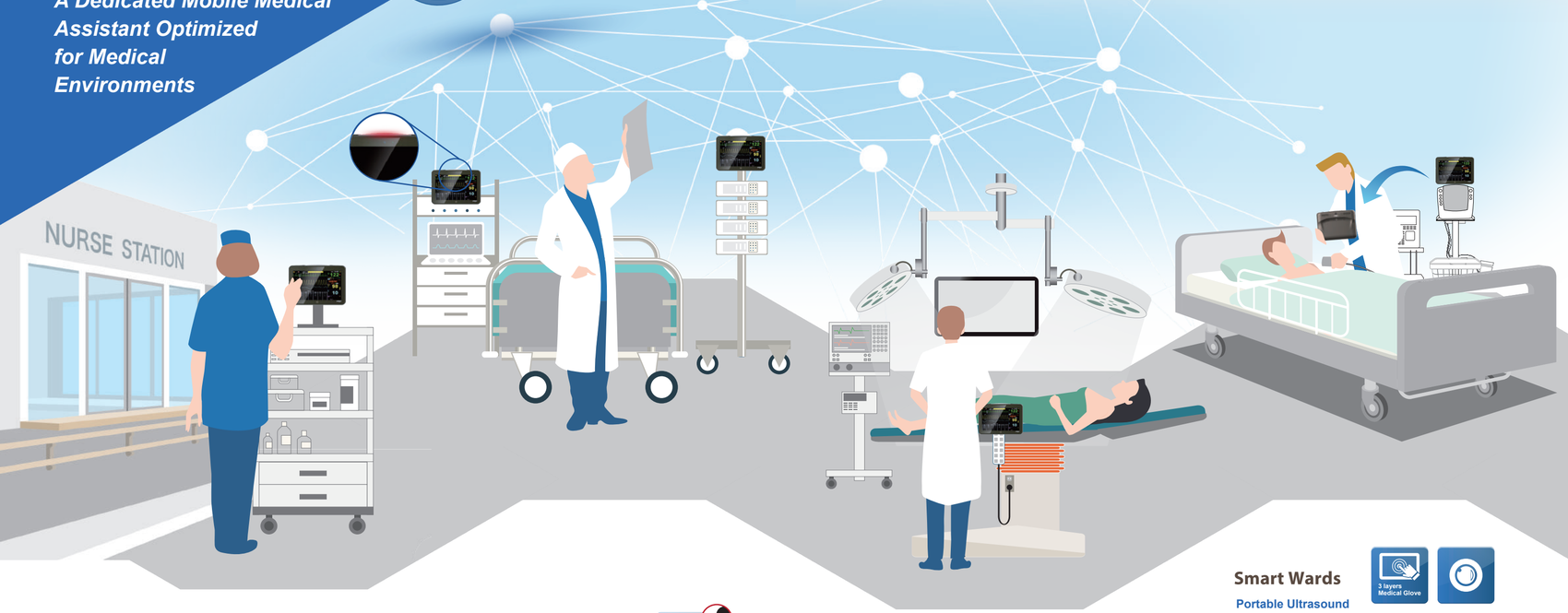
High resolution cameras for barcode scanning and wound documentation

FHD resolution panel with wide viewing angle

Crystal clear, highly sensitive and glove detectable multi-touch screen



Alarm light with programmable color LED



Nurse Station

eMedication Gateway

The MD101 can be used as an integral part of a Closed Loop Medication Management (CLMM) System to complete the cycle of managing patient medication and administrative overhead. As such, the M101 acts as an eMedication Gateway working in the background to trace the flow of medication from a doctor's prescription to the pharmacy, nursing station, and patient. To increase processing efficiency in the medication chain, patients' daily doses of medicine can be input directly while nurses make their rounds, shortening the waiting time for dispensing medication.

ICU

Vital Sings Gateway and Monitoring

Accurate recording of patient vital signs in ICUs is an important daily task performed by nurses that helps doctors to select the best treatment plan for their patients. With easy integration of ECG devices and an intuitive software user interface, the MD101 works as a gateway to document patient data in HL7 format, a common protocol used by EMR systems. Using the MD101 to record and transfer information automatically to the cloud, doctors can access data from anywhere to make informed decisions about treatment options. The MD101 also includes features to ensure it remains stable and reliable when used.

Digital ORs

Remote Imaging Gateway

IT technology can quickly create a large number of digital medical images from X-rays, CT scans, MRIs, and ultrasounds, requiring a medical display solution that can handle multiple image formats and display them without error. This challenge is one of today's most important requirements for medical professionals needing large displays to help them perform medical procedures. The MD101 can be used as an imaging gateway to provide additional support to physicians as a tableside remote control panel to change, rotate and measure images in real-time.

Smart Wards

Portable Ultrasound

The MD101's slim and lightweight design makes it easily portable, and its robust system components make it ideal for use as a human-machine interface (HMI) device for running applications and displaying images such as handheld ultrasound scanners that can be conveniently used at a patient's bedside, as opposed to having to transport patients to a dedicated ultrasound scanning center.

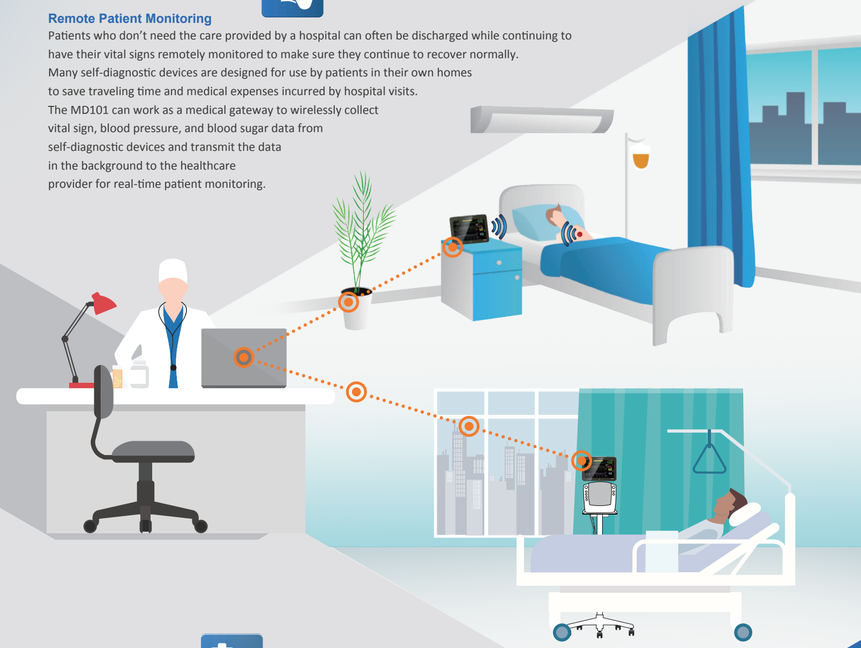
Wound Documentation

The MD101 includes a high definition camera that supports use as a quick and easy way to measure, record and document detailed images of patient wounds for assessment and treatment. Proper wound documentation is also an effective means of improving the quality of patient care by closely monitoring any changes to wounds.

Personal Residences

Remote Patient Monitoring

Patients who don't need the care provided by a hospital can often be discharged while continuing to have their vital signs remotely monitored to make sure they continue to recover normally. Many self-diagnostic devices are designed for use by patients in their own homes to save traveling time and medical expenses incurred by hospital visits. The MD101 can work as a medical gateway to wirelessly collect vital sign, blood pressure, and blood sugar data from self-diagnostic devices and transmit the data in the background to the healthcare provider for real-time patient monitoring.



Nursing Homes

Telemedicine Gateway

Telemedicine is set to be one of the main healthcare industry trends for the foreseeable future. The benefit of this virtual technology is that it connects healthcare providers with patients regardless of their physical distance. With telemedicine solutions, distance is no longer a barrier to providing quality healthcare. The MD101 has the ability to wirelessly connect patients and doctors, as well as specialists, family members, insurers, and health and wellness coaches, to sources of information beyond traditional clinical outreach.

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