

STREAMLINED EPCR DATA FLOW



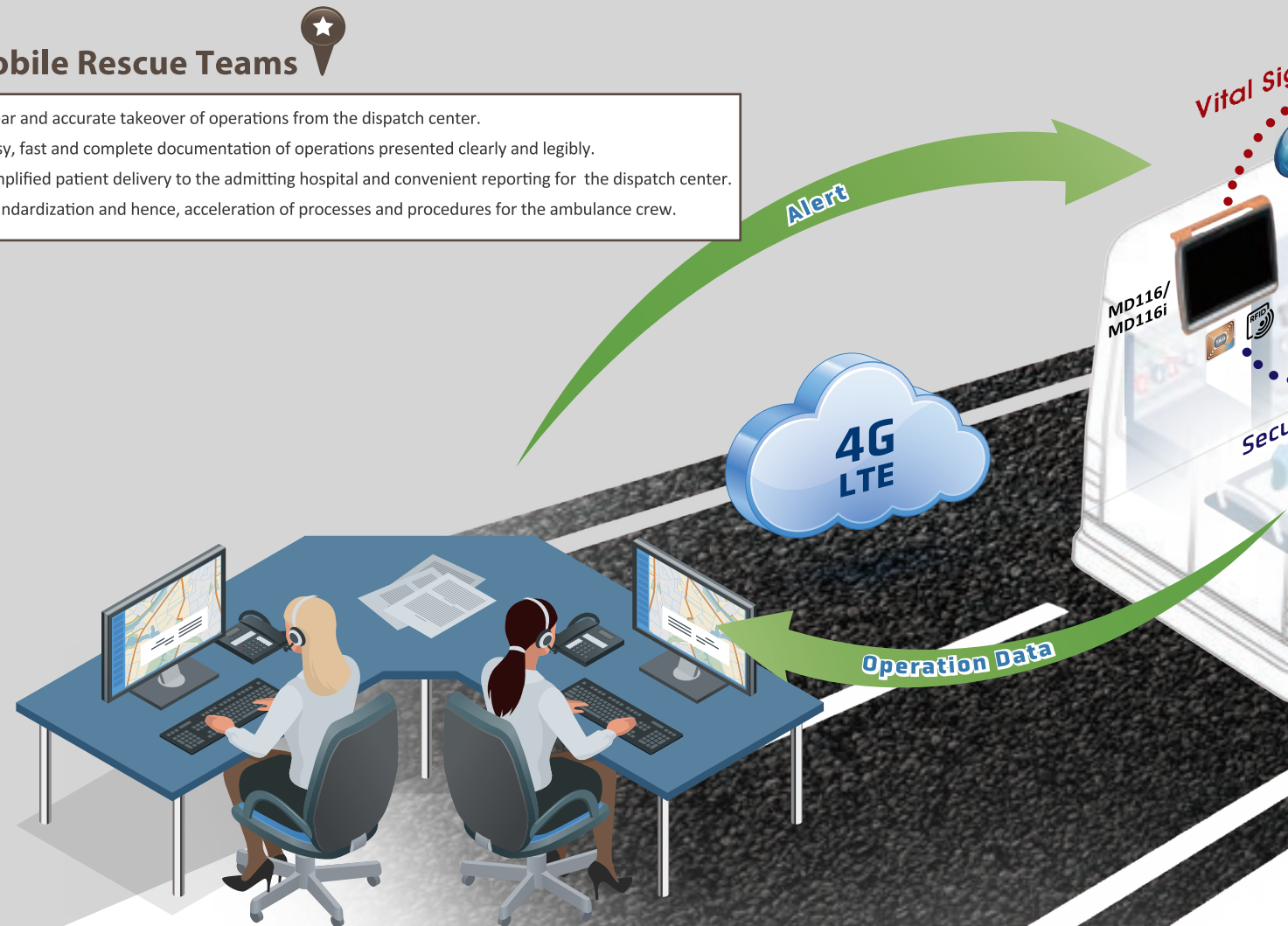
MD116 MD116i Key Features

- Windows 10 pre-installed
- Intel® Pentium®/ Intel® Core i5
- Sunlight readable 600 nits display
- Latex glove compatible PCAP Gorilla Glass touchscreen
- Dual hot-swappable batteries for non-stop operation
- Dual smart card reader
- Fanless, IP54 waterproof and dustproof



Mobile Rescue Teams

- Clear and accurate takeover of operations from the dispatch center.
- Easy, fast and complete documentation of operations presented clearly and legibly.
- Simplified patient delivery to the admitting hospital and convenient reporting for the dispatch center.
- Standardization and hence, acceleration of processes and procedures for the ambulance crew.



Dispatch Centers

- Fast, secure and complete data communication between dispatch center & ambulance crew.
- Merging dispatch center data with mobile rescue teams.
- Easy documentation, billing & archiving of operations.
- Effortless data collection & communication, with a significant reduction of errors.

Emergency Medical Assistant

The Onyx MD116 EMS tablet is designed to help emergency service providers improve the patient handover process with a lower total cost of ownership by integrating an intuitive documentation tool for Electronic Patient Care Reporting (ePCR) and an automated wireless data exchange mechanism as a turnkey solution.



Hospitals

- Faster, more efficient and better medical care for emergency patients with the appropriate team and medical devices
- Gaining comprehensive insights with the patient pre-registration option, for example: vital parameters, trends, rest-ECGs, photos, etc.
- Standardization of processes with customized solutions such as "Stroke Angel" & "Cardio Angel"
- Improved communication between hospital and ambulance crew

Specifications

Main Specifications

Processor	Intel® Pentium® / Intel® Core i5		
System Memory	Default 4 GB (Up to 8 GB)		
OS Support	Microsoft® Windows 10 IOT LTSC		
Storage	Default 64 GB to 512GB		
Wireless Communication	802.11 a/b/g/n + BT5.0 (Optional)		
Camera	2 MP (Front) / 5 MP (Rear)		
Touchscreen	Projected Capacitive Touchscreen w/Gorilla Glass		
LTE	EM7421 x 2 (optional)		
Function Keys	x2	LED Indicators	x2
Speaker	2W x1	Internal Mic	x1
Security	Smart Card Reader x2 (Optional), RFID x1 (optional)		

Display

Display Size	11.6" 16:9 Widescreen LED Panel
Resolution	FHD 1920 x 1080
Luminance (cd/m2)	600nits

I/O

USB	USB 3.0 (Type-A) x1, USB 2.0 (Type-A) x1
Ethernet	Gigabit LAN x1
Docking	Docking Connector x1

Battery Pack

Battery Capacity	4545 mAh (32.72Wh) x2
Battery Run Time	Approx. 8 hrs

Mechanical and Environmental

Operating Temperature	0°C ~ 32°C (14°F ~ 131°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Dimensions	312 (W) x 239 (H) x 37 (D) mm
Net Weight	Approx. 1.45~1.8 kg
Certification	CE/FCC Class B, UL60601-1, EN60601-1, EN1789, Automotive Directive

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MOBILE MEDICAL ASSISTANT

MD116 MD116i



World Leading
12" Medical Tablet Designed
for Multi-Care Flow

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Smart Healthcare an ASUS assoc. co.

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Medical Field

Due to the aging global population, Onyx Healthcare is committed to designing smart mobile assistive devices to aid elderly and disabled individuals revitalize their social lives, thereby fulfilling its corporate social responsibility. Therefore, Onyx Healthcare developed a series of mobile tablets, which not only feature robust cases capable of preventing damage caused by frequent movements, but also have passed strict medical grade certifications, and are thus suitable for medical professionals as well as home patients. The compact lightweight design, long battery life, bright display, and watertight construction mean that the device is not limited to indoor use. Patients are free to go outdoors and make adjustments to their lives. Additionally, the exclusive holder design enables easy coupling and detachment of Onyx tablets and various wheelchairs, beds, and carts, allowing it to be easily transported.

Telemedicine

The MD116 has dual LTE modules, providing powerful wireless communication with an ultra-high speed Gigabit Ethernet interface. The MD116's high resolution (FHD 1920x1080) and high brightness (600 nits) display makes it easy for telemedicine applications.

EKG

Using the MD116 with AI can interpret the electrocardiogram signal, and assesses the condition of the heart, providing accurate and efficient assistance for doctors. This artificial intelligence assists doctors in the diagnosis of the tumor, and can be a non-invasive screening to breast puncture and biopsy to determine the malignancy of the breast tumor.

Dual LTE Modules

Built-in dual LTE support doubles MD116 bandwidth to ensure a stable data connection and zero data loss.



Inspired by Healthcare Professionals

One-Handed Operation

The MD116 can be easily docked and released by one hand with our patented vehicle docking system. The tablet can be quickly and easily unlocked and removed from the dock by pressing the locking clamp, and carried to the scene.



Easy-Grip Handle

The handle's ergonomic design makes the MD116 easy to hold while the elastomer coating prevents the tablet from slipping out of your hands.



Designed for Acute-Care

Dual Smart Card Readers free up Healthcare Professionals from frequently exchanging ID cards so they can focus more on acute patient care. In addition to automated patient vital sign data collection, the MD116 also integrates a high resolution camera for documenting wounds, and barcode scanning.



Endoscopy

Working with medical equipment manufacturers, Onyx has integrated custom medical imaging modules in the MD116i for disposable bronchial endoscopy applications. Combining the Intel® AI Accelerator/Movidius™ Myriad™ X VPU with AI-like neural network deep learning, the MD116i is capable of artificial intelligence medical image recognition and inference computing.



Ultrasound

The MD116 can be linked to the best high performance and reliable ultrasound device. This artificial intelligence assists doctors in the diagnosis of the tumor, and can be a non-invasive screening to breast puncture and biopsy to determine the malignancy of the breast tumor.



Superior Wireless Connectivity



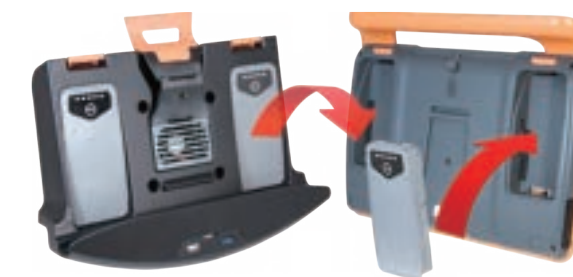
Proprietary Antenna Design

RF antennas are built into the handle to overcome shielding issues from the magnesium alloy chassis, increasing RF performance.

Continuous and Reliable Power Supply

Spare Battery Packs

- Two spare battery packs are included in the vehicle dock and are always fully charged for quick and easy swapping at any time.
- The vehicle dock supports a wide DC-in power range (12-19 V) to suit different output voltages from an automobile's electrical system.



Dual Hot-Swappable Batteries

- Dual hot-swappable batteries are compact, lightweight and easy to change.
- Batteries can be charged in as little as two hours.
- LED indicators show the exact power level on each battery pack in real time.

