



Healthcare

FUTUREPROOF
YOUR
HEALTHCARE
MANAGEMENT

About Winmate

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Winnate Inc. is a rugged computing and embedded solutions provider for industries operating in some of the most challenging environments. Founded in 1996 in Taipei, Taiwan where its headquarters, research and development facility, and production lines are located, today the company has offices and service centers worldwide.

Winnate develops rugged industrial-grade computing solutions that advance the edge AI system, and Industrial Internet-of-Things (IoT). Industrial display and panel PC, HMI, embedded systems, IoT gateways to rugged tablets and handheld devices for industries ranging from transportation and logistics to marine and military, railway, oil and gas, smart grid, healthcare, and field services. Winnate also provides professional services in customizing products and project management create a unique solution for specific customer's needs.

The Winnate Difference

Innovation and Ruggedness

Blending innovations and ruggedness, our products are designed to meet the requirements of vertical markets' environmental standards.

Engineering Intelligence

We are committed to maintaining the highest standards in engineering excellence to ensure our products deliver reliability, durability, and optimized performance.

Quality Commitment

Quality assurance and entire engineering processes are under go in-house. This is why we invested significantly in our state-of-the-art testing facility and offer global support.

“ **INNOVATIVE
TECHNOLOGY FOR
OPERATIONAL
EXCELLENCE.** ”

Efficiency

Our team is committed to efficiency and maintaining the shortest possible development cycles. From design to testing the whole development process undergoes in-house to achieve the market advantage in speed and quality.

Reliability

Reliability, service and support are part of our foundation. Every product undergoes the scrutiny of industrial standards testing to verify electrical, mechanical, thermal, and firmware design performance.

Customized Solutions

Years of experience allow Winmate to offer customized solutions for different applications.

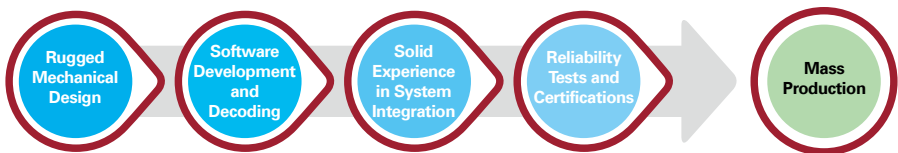
From product design to accessories, our engineering team designs and support the system integration process.

- CUSTOMIZED CONFIGURATION
- CUSTOM OS IMAGE
- CUSTOM BIOS
- ENCLOSURE DESIGN
- PERIPHERALS AND OPTIONS
- CUSTOM-DESIGNED ACCESSORIES

Technical Know-How

We understand that, for enterprises operating in rugged or potentially hazardous environments, the access to the cutting-edge solutions purpose-built for their applications is imperative. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, to testing all in house in order to gain maximized freedom to research and implement the latest technologies available.

The latest technologies we deploy for our rugged products:



- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive or SAW touch
- Waterproof enclosure
- Military EMI and mesh coating
- Wireless capabilities
- Data capture devices integration
- Defroster for ultra-low temperature environments
- Stainless steel SUS 316/ AISI 316
- Shock and vibration resistance
- Wide-range operation temperature

Healthcare Solutions

Overview

Technology has long played an imperative role in streamlining hospital operations and improving patient care. In hospital environments, performance, reliable and accurate image reproduction are imperative. From medical images to patient data, the hospital environment is a complex ecosystem that requires advanced technology to keep it running smoothly.

Our medical imaging solutions include :

- Surgical and clinical display
- Durable design and know-how in medical images visualization

Expand your medical and healthcare business with the Winmate. As a technology solutions leader, Winmate values our partners. As a partner, you are a vital instrument in ensuring the customer needs are understood and that their expectations are exceeded every time.

Technology

Certification & Quality Approvals

Winmate developed and implemented a quality management system based on a process management approach which has demonstrate its ability to provide consistent products that meet customer and applicable regulatory requirements. The quality system complies with the international standard ISO 9001:2008 and the standards which apply to related industries.

Winmate achieved ISO 13485:2016 and EN ISO 13485:2016 certification for its' design, development, production, installation, and servicing of medical devices. This achievement also enables Winmate to expand its medical-related product line, and create new opportunities for our original design manufacturer (ODM), original equipment manufacturer (OEM), and rebranding partners.

ISO 9001

ISO 14001

IECQ QC080000

ISO 13485



Management System
ISO 9001:2008
ISO 14001:2004
QC 080000:2012

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ID: 9105017256



What does this mean for you? Winmate's certification confirms any portable panel PCs and mobile tablets we develop for use in the medical industry are safe and meet all regulatory design requirements.



YOUR HEALTHCARE APPLICATION. OUR RUGGED COMPUTING SOLUTION.

Industrial Challenges

- **Real Time Information**

The trend in Healthcare applications is to get patients' information in real time for a quick response. Cost saving, online data available everywhere and reduced loading of personnel are the key benefits of this solution. Physicians, clinicians, nurses and ambulance workers who take care patients can focus on helping them, instead working with papers and reports.

- **Reliable and Accurate Image Reproduction**

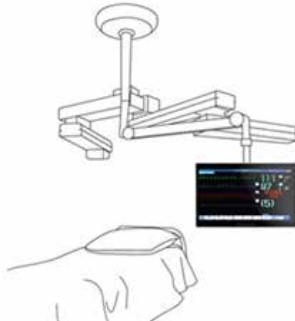
In hospital environments, performance, reliable, and accurate image reproduction are imperative. From Healthcare images to patient data, the hospital environment is complex ecosystem that requires advance technology to keep it running smoothly. The Display with a UHD 4K (3840 x 2160) resolution and a 3D LUT for color accuracy; helps minimize errors and improve hospital operational efficiencies.

- **Complex Environment**

The need is to reduce cable cluttering and maintenance downtime.



Surgical Display



Patient Monitoring Display



Point-of-Care

Application Story

Patient Care



Background

Portable and mobile devices dive into hospital environments. The ability to gather and access information with the touch of a fingertip, and carry it around wherever you go is invaluable for those working in this sector. Portable and mobile computers allow paramedics and nurses to instantly access and keep patient records. They use the tablets to schedule patient checkups in both outpatient and inpatient wards, issue and authorize prescriptions, record and transmit patient data in multimedia format and use instant live video conferencing and chat features to enhance collaboration. With technological advancements healthcare professionals can to provide better patient care.

Core products

- 10.1" Healthcare Tablet Computer M101P-ME

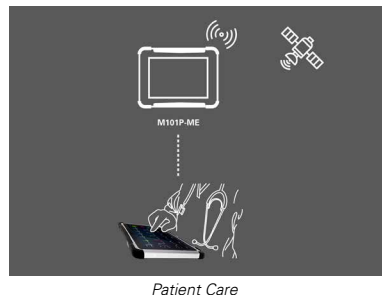
Main Challenges

- Expansion adapter module design for USB connection
- Must be able to work with vehicle docking
- Customized housing with anti-bacterial material

Why Winmate

- Integrated barcode scanner for data collection
- Medically certified vehicle docking
- Medically certified IEC/EN 60601-1, IEC 60601-1-2

Application Diagram



4.3" Arm Healthcare Rugged Mobile Computer

E430RM4L-ME



“COMPACT TOOL FOR DATA COLLECTION.”

- 4.3" PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

1 GB SDRAM, 4 GB eMMC

WLAN 802.11 a/b/g/n, Bluetooth 4.0, GPS

2 MP webcam, 8 MP rear camera with autofocus

Built-in NFC, 1D/2D barcode reader

Long battery life, 20 hr of operations

MIL-STD-810G shock and vibration resistance

IP65 waterproof and dustproof

Operating temperature 0 to 35°C

Accessories

Standard

Universal Adapter	Battery	Micro SD Card	Handstrap
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Optional

Charging Dock	Battery Charging Dock	Vehicle Charging Dock	Leather Holster
Lanyard	Micro USB Host Cable	Additional Battery	

Custom configuration

4G

4G/ LTE

3G

3G



Storage Card



Antimicrobial Surface

Application



MRT Diagnostic Room

“DATA COLLECTION AND REAL-TIME COMMUNICATIONS.”

Compact 4.3-inch rugged mobile computer E430RM4L with built-in barcode scanner and Wi-Fi helps doctor's assistant to check patient records and phone make calls to other departments.

Custom configuration

4G

4G/ LTE

3G

3G



Hotswap Battery



Antimicrobial
Surface

Application



Laboratory

“BUILT-IN BARCODE
SCANNER FOR
IDENTIFICATION
PURPOSES.”

The 5-inch rugged mobile computer with built-in barcode scanner E500RM8-ME helps laboratory technicians to identify a probe and dispatch it to the right department for analysis.

5" Arm Healthcare Rugged Mobile Computer

E500RM8-ME



“

**DROP RESISTANT.
MOBILE. RUGGED.**

”

- 5" PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

2 GB RAM, 16 GB eMMC

WLAN 802.11 a/b/g/n, Bluetooth 4.1, GPS/AGPS/
GLONASS

2 MP webcam, 8 MP rear camera with autofocus

Built-in NFC, 1D/2D barcode reader

MIL-STD-810G shock and vibration resistance

Long battery life, 20 hr of operations

Operating temperature 0 to 35°C

Accessories

Standard

Universal Adapter

Micro USB Cable

Micro SD Card

Handstrap

Optional

Charging Dock

Battery

Battery Charging Dock

7" Arm Healthcare Rugged Tablet Computer

M700DM8-ME



“ **LIGHTWEIGHT MOBILITY
IN POCKET SIZE.** ”

- 5"~7" PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

2 GB RAM, 16 GB eMMC

WLAN 802.11 a/b/g/n, Bluetooth 4.0,GPS/AGPS/
GLONASS

2 MP webcam, 8 MP rear camera with autofocus

Built-in NFC

Dual SIM card slot

MIL-STD-810G shock and vibration resistance

Long battery life, 20 hr of operations

Operating temperature 0 to 35°C

Accessories

Standard

Universal Adapter	Battery
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Optional

Charging Dock	Vehicle Dock	Vehicle Charging Dock	Desk Dock
Handstrap	Carry Bag	Micro SD Card	Capacitive Touch Stylus

Custom configuration

4G

4G/ LTE



Barcode Reader

3G

3G



Antimicrobial
Surface

Application



Patient Identification

“INSTANTLY ACCESS AND
KEEP PATIENT RECORDS
UPDATED.”

Rugged and compact the Winmate M700DM8-ME with built-in barcode scanner helps streamline the patient admittance process, track medication and identify patients throughout their entire stay in a hospital.

14" x86 Healthcare Rugged Tablet PC M140WK

2020/ Q3

Custom configuration



Memory



Storage



4G/ LTE



Antimicrobial
Surface



Barcode Reader



HF RFID
Reader

Application



Clinical Research

"WIDE WORK AREA AND DEDICATED INTERFACE."

The M140WK rugged tablet features brilliant vivid 14-inch display with projected capacitive touchscreen to enhance user experience and workflow.



**“ BRILLIAN LARGE
SCREEN FOR EFFICIENT
OPERATIONS. ”**

- 14" 1920 x 1080 PCAP touchscreen
- Intel® Core i5-8265U
- Windows 10 IoT Enterprise

4 GB SODIMM DDR4-2133, 128 GB M.2 SSD

WLAN 802.11 a/b/g/n/ac, Bluetooth 5.0, GPS, GLONASS

USB 3.0 (Type A), USB 3.0 (Type C), Micro HDMI

RJ45 (Giga-LAN) port

Long battery life, 8 hours of operations

IP65 waterproof and dustproof

Operating temperature -20~ 60°C (AC); -10~ 50°C(Battery)

Accessories

Standard

AC Adapter
Carry Bag/Handstrap

Power Cord

Battery

Capacitive Stylus

Optional

Desk Dock
Handstrap
Micro HDMI Cable

Vehicle Dock
Shoulder Strap
Vehicle Charger

Battery Charger
VESA Mount Kit
USB-C to Ethernet
Adapter

USB-C to USB-A Hub

Smart Card Reader

UHF RFID Reader

Smart Card Reader
Carry Bag
USB-C to RS232
Adapter
Healthcare Grade
Tablet Dock

10.1" x86 Healthcare Rugged Tablet PC M101P-ME



“ **DROP RESISTANT.
MOBILE. RUGGED.** ”

- 10.1" 1920 x 1200 PCAP touchscreen
- Intel® Pentium® N4200
- Windows 10 IoT Enterprise

Certified IEC 60601-1, 60601-1-2

4 GB SODIMM DDR3L-1600, 128 GB SSD

WLAN 802.11 a/b/g/n/ac, Bluetooth 5.0, GPS, GLONASS

USB 3.0 (Type A), USB 3.0 (Type C), Micro HDMI

Long battery life, 8 hours of operations

Housing enhanced with antimicrobial properties

IP65 waterproof and dustproof

Operating temperature 0 to 35°C

Accessories

Standard

AC Adapter	Power Cord	Battery	Capacitive Stylus
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Optional

Desk Dock	Vehicle Dock	Battery Charger	Smart Card Reader
Handstrap	Shoulder Strap	VESA Mount Kit	Carry Bag
Micro HDMI Cable	Vehicle Charger	USB-C to Ethernet Adapter	USB-C to RS232 Adapter
		UHF RFID Reader	Healthcare Grade Tablet Dock

Custom configuration



Memory



Storage



4G/ LTE



High Capacity
Battery 16hr



Barcode
Reader



HF RFID
Reader



High
Brightness

Application



Patient Care

“IMPROVES EFFICIENCY AND SAVES TIME FOR REGULAR CHECKUPS.”

With 10.1-inch portable tablet computer M101P-ME nurses can easily access patient information any time from any place. If needed, the M101P-ME can also retrofit medication scheme and doctor prescriptions.

Custom configuration



15.6" Healthcare Display W15L100-PTA3-ME



Application



Diagnosis and Clinical Review

"SHARP & BRIGHT
IMAGES."

Winmate 15.6" medical display allow monitoring patient information and support various mounting options for added convenience of diagnosis and clinical review.

“ FOR MEDICAL IMAGING
AND CLINICAL DATA
VIZUALISATION. ”

- 15.6", 1920 x 1080 screen
- Chassis, VESA mount

Certified IEC 60601

Projected capacitive touch

Touch interface USB

VGA, HDMI input

Two 2 Watt speakers

VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0~50°C

Accessories

AC Adapter

HDMI Cable

VGA Cable

USB Cable for Touch

27" / 32" 12G-SDI Healthcare Display M270TF/ M320TF



“ **NEXT LEVEL OF MEDICAL
IMAGING.** ”

- 27" / 32", 3840 x 2160 resolution
- Chassis, VESA mount

Certified IEC 60601, EN60950-1

4K signal input HDMI/DP/12G-SDI

3D LUT color scheme

Backlight sensor, ambient light sensor

Antimicrobial surface coating

VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0 to 35°C

Accessories

AC Adapter

HDMI Cable

VGA Cable

USB Cable for Touch

Custom configuration



Optical
Bonding



DICOM



High
Brightness



Light Sensor



Calibration
Software



AR Glass

Application



Surgical Display

“4K SIGNAL
TRANSMISSION TO A
DISTANCE FOR UP TO 150
METERS.”

The M270TF-SDI is a 27" surgical display with 12G-SDI interface to ensure the precise imagery remains unchanged from the video source to the 4K display and therefore allows healthcare providers to have the most accurate imaging.

32" 4K UHD Healthcare Display W32L100-PTA1

Custom configuration



High Brightness



P-Cap Touch



Remote Control



4K
Ultra HD

“**ULTIMATE MEDICAL IMAGING SOLUTION.**”

Application



Medical Monitoring

“REQUIRED LUMINANCE AND CONTRAST.”

Winmate 32" healthcare display W32L100-PTA1 features great luminance, contrast, and wide viewing angles that allows to review imaging results in meetings with staff or patients.

- 32", 3840 x 2160 screen
- Chassis, VESA mount

1.07B colors

Touch interface USB

3G-SDI, VGA , DVI , HDMI 2.0, HDMI 1.4, DP input

Two 5 Watt speakers

VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0~35°C

Accessories

AC Adapter

HDMI Cable

VGA Cable

USB Cable for Touch

M101P-ME

CERTIFIED
HEALTHCARE
TABLET
COMPUTER FOR
BETTER PATIENT
CARE.



WinMATE



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