INFRASTRUCTURE

**EV Charging Stations/
Utilities/
Energy/
Agriculture/
Oil & Gas/
Mining**

WELCOM TO WINMATE

Start to charging

RUGGED AND MOBILE DEVICE TO STREAMLINE FIELD WORKERS EFFICIENCY

Q1 - 2023

About Winmate

Founded in 1996, Winmate Inc. is a pioneer in rugged computing technology. Winmate has provided business leaders worldwide with reliable, robust solutions for the most challenging industrial conditions for over two decades. From R&D to manufacturing to in-house testing, Winmate Inc. manages the entire product development process with ready-made products available for quick deployment. Today Winmate's innovative approach has helped countless enterprises at every level with equipment automation and seamless Industrial Internet of Things (IIoT) integration.

From the industrial display, panel PC, HMI, embedded systems to rugged mobile devices, Winmate caters to industries ranging from transportation and logistics to marine and military, railway, oil, and gas, and provides customization services to create a unique solution for specific customer requirements.

The Winmate Difference

Innovation and Ruggedness
With innovation 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 conducted in-house. It is why we invested significantly in our state-of-the-art testing facility with additional global support.

" INNOVATIVE TECHNOLOGY FOR OPERATIONAL EXCELLENCE. "

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

Reliability
Reliability, service, and support are part of our foundation. Every product scrutinizes 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 access to cutting-edge solutions purposely built for their applications is imperative for enterprises operating in rugged or potentially hazardous environments. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, and in-house testing to research and implement the latest technologies available.

The latest technologies we deploy for our rugged products:
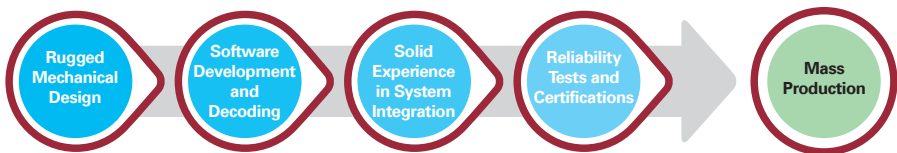
- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive, or SAW touch
- Waterproof enclosure
- Military 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

Field Service Solutions

Overview

Field service workers face various challenges working in remote locations and unfamiliar environments, and every minute of downtime results in lost revenue. Access to critical information and wireless communications are top priorities for workers to provide fast service. Winmate provides rugged mobile solutions capable of increasing productivity in the field.

Our rugged mobile solutions are built to withstand the rigors of the harshest environments and are designed to improve the efficiency and productivity of field workers. Durable portable computers allow workers to access information anytime, no matter where the task brings them. Wireless connectivity, data collection, and data transfer features allow workers to keep in touch with the operations control all day long.

Our rugged mobile computers include:

- The latest Android™ or Windows® operating system

- Advanced data collection options

- Durable design

Winmate's rugged mobile computers are built to last, reducing the total cost of ownership over time. Retailers, manufacturers, logistics companies, and field service organizations all choose Winmate mobile computers every day to improve daily operations.

Technology

Winmate offers Android and Windows-based rugged mobile computers with additional application-focused features such as barcode scanners, RFID, and NFC readers. All the devices are solid, waterproof, and drop resistant.

Application-focused features:

- Built-in barcode, RFID, fingerprint scanners

- Wireless connectivity 3G/ 4G LTE, WLAN, BT, GPS

- Waterproof and dustproof enclosure

- Shock, drop, and vibration resistance

Electric Vehicle Charging Stations

Overview

Electric car sales reached a record 3 million in 2020, up 40% from 2019. This strong growth was a stark contrast to general car market sluggishness globally, with overall car sales down 16% due to the COVID-19 crisis. After a decade of rapid growth, there are now over 10 million electric cars on the road, representing ~1% of the global car stock. For 2030, the Net Zero Emissions by 2050 Scenario projects 300 million electric cars on the road and they account for over 60% of new car sales, compared with only 4.6% in 2020.

Winmate has technology know-how for the production and development of explosion-proof devices:

- Strong vibration
- Operating in cold environments
- Unstable power supply
- Wireless communications
- Extreme operating environment

Winmate, a rugged computing and embedded solutions provider for industries operating in some of the most challenging environments, is extending the portfolio of its proven industrial HMI panel PC series. Winmate's industrial Panel PCs featuring a new Gen. Intel® processor are now available as GC Series for use in heavy-duty industrial environments, as PO Series for embedded kiosks, and as Standard Industrial Panel PC (Chassis/ Open Frame/ Front IP65 / Panel Mount) for various industrial application scenarios. All new versions are available immediately.

Technology

Winmate continues pursuing excellence and innovation in system design. To fulfill the diverse needs of customers and the EV market demand, Winmate partners with leading EV charging solution suppliers to develop IoT-based EV charging solutions with IP65 ratings that are modern, ergonomic, and customizable for outdoor environments. Besides using the high-brightness smart touch computer for a better user experience, the charging pile could fit well with all European, Japanese, and National standard EVs thus supporting precise power supply control and cut-off to avoid damages by accident caused by abnormal weather or grid.

Application-focused features:

- G-WIN GC Series HMI Panel PC
- PO Series HMI Panel PC
- Standard Industrial Panel PC (15″ and up)
- Chassis/ Open Frame/ Front IP65 / Panel Mount
- Technical details about the new HMI Panel PCs
- 7KW and 21KW Power Output with IoT-Based EV Charging Solution

WE DELIVER ENTERPRISE MOBILITY SOLUTIONS FOR FIELD SERVICE OPERATIONS.

RUGGED TABLETS

Portable and wireless rugged tablet computers can survive in any environment and get real work done.

VEHICLE-MOUNTED COMPUTERS

Rugged vehicle-mounted computers for data collection in the warehouse and logistic applications, designed to fit seamlessly into forklifts, trucks, and other vehicles.

G-WIN PANEL PC

Rugged Panel PC for data collection in the warehouse and logistic applications, designed to fit seamlessly into forklifts, trucks, and other vehicles.

Success Story

Field Work Inspection

Background

Inspection systems for industrial fieldwork are essential for safeguarding public areas and industrial operations. With portable digital radiography (DR) technology, field workers can use its X-ray scanning features to evaluate power lines and even preventive maintenance in oil or gas applications. Likewise, accurate DR systems can be used for industrial surveillance and construction site evaluations where a precise panel PC could be the difference between life and death.

Core Products

Industrial Panel PC

- 13.3″ Ultra-Rugged Tablet M133WK Series

Main Challenges

- Accurate X-ray inspections in industrial fieldwork
- Exposure to different weather conditions
- Responsive touch screen
- High performance

" DIGITAL RADIOGRAPHY FOR EVALUATION AND PREVENTIVE MAINTENANCE IN FIELD SERVICE APPLICATIONS. "

Why Winmate

- Sunlight readable display with optical bonding technology
- Highly sensitive PCAP touchscreen
- Rugged design, IP65 water and dustproof
- High performance and fanless cooling system
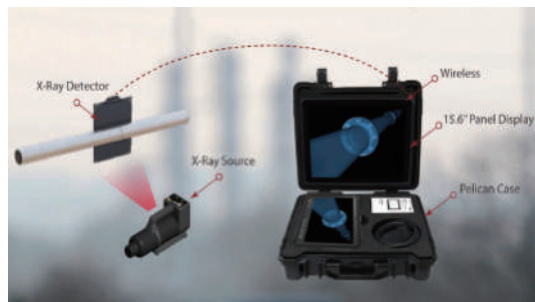
Application Diagram: Portable Digital Radiography

Application Story

Industrial Field Work

Background

Field service workers face various challenges working in remote locations and unfamiliar environments, and every minute of downtime results in lost revenue. Access to critical information and wireless communications is the top priority for workers to provide fast service. Winmate comes with rugged mobile solutions capable of increasing productivity in the field.

Core Products

- Rugged mobile computer E430 Series, E500 Series
- Rugged tablet M101 Series

Main Challenges

- Changing weather conditions
- Work in remote locations
- Data collection
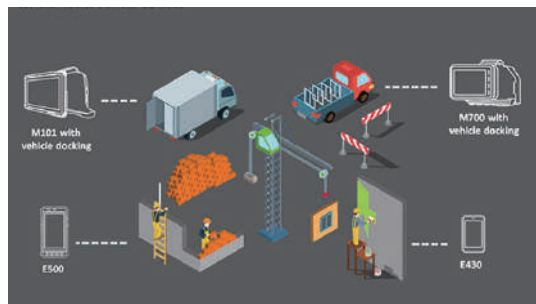
Why Winmate

- Rugged design
- Shock, drop, and vibration resistance
- Wireless communications

" RUGGED MOBILE DEVICES TO PERFORM INSPECTION, UTILITY CONTROL AND REAL-TIME REPORTING. "

Application Diagram: Industrial Field Work

5" Handheld Computer
E500QK

NEW PRODUCT

RUGGED DESIGN BUILT TO SURVIVE.

- 5", PCAP touchscreen
- Qualcomm® Snapdragon™ 660 (Octa-core 2.2 GHz)
- Android 9.0

3 GB RAM, 32 GB eMMC
Support hand/ gloves and rain mode
Optical bonding for sunlight viewability
8 MP webcam, 13 MP rear camera with autofocus
USB 3.0 Type C (OTG)
WLAN, BT, GPS, GLONASS, WWAN (Optional)
19 keypad include power key
Ambient light sensor, E-compass, Gyro, acceleration sensors
IP67 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance

Custom configuration

Docking Connector

RFID
NFC RFID Reader

WWAN
WWAN

Application

Courier Shipping Service

"COMPACT AND DURABLE HANDHELD COMPUTER"

Rugged specifications of the compact E500QK handheld computer mean that personnel can take photos, enter data, and take photos in any harsh environment. The latest Android operating system offers tremendous potential for developing or adapting mobile computer applications.

Barcode Reader

NFC RFID Reader

WWAN

Application

Forklift Solution

"FROM FIXED MOUNTING TO PORTABLE SOLUTION"

The compact M700DM8 rugged tablet with custom vehicle docking delivers a portable and robust solution for warehouse management and route optimization.

7" Rugged Android Tablet

M700DQ8

 FC C E

" COMPACT. DURABLE. VIBRATION RESISTANT. "

- 7", 1280 x 720, PCAP touchscreen
- Qualcomm® Snapdragon™ 660, Octa-core up to 2.2 GHz
- Android 9.0

3 GB RAM, 32 GB eMMC
Support hand/ gloves and rain mode
Optical bonding for sunlight viewability
Ambient light sensor, E-compass, Gyro & acceleration aensors
8 MP webcam, 13 MP rear camera with autofocus
USB 3.0 Type C (OTG)
WLAN, BT, GPS, GLONASS
NFC (Read / Write, Peer-to-Peer mode) (Optional)
550g lightweight portability
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistant

8" Windows Rugged Tablet
M900P/ M900PT

PORTABLE AND POWERFUL SOLUTION.

- 8", 1280 x 800, IPS LED
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise

4 GB LPDDR4, 128 GB SSD
Light sensor, g-sensor, Gyro
2 MP webcam, 8 MP rear camera with autofocus
GPS, GLONASS
USB 3.0 (Type A), USB 3.0 (Type C)
Built-in smart card reader (Default M900PT)
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance

Custom configuration

Up to 8 GB Memory	**Up to 512 GB** Storage
HF RFID Reader	Barcode Reader
WWAN	

Application

Connected Truck

"CONNECTIVITY FOR VEHICLES ON THE ROAD"

Winmate developed a smart truck solution for a heavy-duty vehicle. Installed on a dashboard by vehicle cradle, the 8" rugged tablet M900P and custom designed vehicle gateway VG-100 now connect in-vehicle systems and allow status monitoring of a semi-truck in Europe.

10.1" Windows Rugged Tablet
M101S

Microsoft Azure Certified · COMPLIANT MIL-STD 810G · IP65 · FC CE

" ROBUST TABLET TO WITHSTAND INDUSTRIAL USE. "

- 10.1", 1920 x 1200, IPS LED
- Intel® Core™ i5-7200U Kaby Lake 2.5 GHz, up to 3.1GHz
- Intel® Core™ i5-7300U Kaby Lake 2.60 GHz, up to 3.5 GHz (Optional)
- Windows 10 IoT Enterprise

4 GB DDR4 SDRAM, 128 GB SSD, micro SDXC card slot

Light sensor, g-sensor, Gyro

2 MP webcam, 8 MP rear camera with autofocus

HF RFID 13.56MHZ and 1D/2D barcode scanner (Optional)

USB 3.0 Type-A, USB 3.0 Type-C

GPS, GLONASS

IP65 waterproof and dustproof

MIL-STD-810G shock, vibration and drop resistance

Hot-swappable battery design with optional High capacity battery pack

10.1" Android Rugged Tablet
S101M9/ L

NEW PRODUCT

COMPLIANT MIL-STD 810H · IP65 · FC C E

" ROBUST TABLET TO WITHSTAND INDUSTRIAL USE. "

- 10.1", 1280 x 800 TFT LCD Display (S101M9L)
- 10.1", 1920 x 1200 TFT LCD Display (S101M9)
- Android 11.0
- ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)

Integrated 1D/2D barcode reader (Optional)

Integrated NFC module (Optional)

8.0 MP camera in front side

13.0 MP rear camera (with LED auxiliary light, auto focus)

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4 GB RAM + 32 GB eMMC

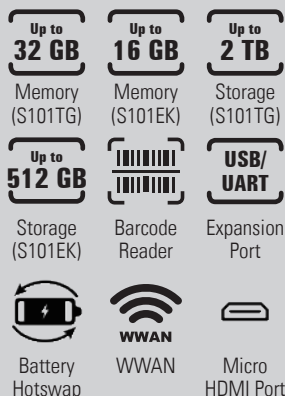Anti-glare touch treatment

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WLAN, BT, GPS, GLONASS, WWAN (Optional)

SOTI MobiControl compliance

Custom configuration

RFID Reader	Barcode Reader
WWAN	Battery Hotswap
Micro HDMI Port	

Application

Industrial Android Durable Tablet

"BRILLIANT DISPLAY WITH ULTIMATE TOUCH"

The 10.1" S101 series features projected capacitive (PCAP) multi-touch for the best user experience and allows switching windows, taking snapshots, zooming in, and rotating objects easily to take the full advantages of the touch interface. Supports Rain, Glove, Stylus modes.

Application

Industrial Field Work

"MOBILE DEVICES BUILT TO WITHSTAND THE HASSLE OF INDUSTRIAL USE"

Field workers equipped with modern technologies for remote data collection and communications with back office finish tasks faster and more efficient.

10.1" Windows Rugged Tablet
S101TG/ S101EK

NEW PRODUCT

MIL-STD 810H | IP65 | FC CE

"

RUGGED ENOUGH TO WITHSTAND WEAR & TEAR.

"

- 10.1", 1920 x 1200 WUXGA with PCAP touch
- 11th generation Intel® Tiger Lake processor (S101TG)
- Intel® Elkhart Lake Celeron® N6210 (S101EK)

4 GB DDR4, 128 GB SSD, micro SDXC card slot

Light sensor/ g-sensor/ Gyro

2MP Webcam , 8MP Auto-focus rear camera

Anti-glare touch treatment

USB 3.0 Type-A, USB 3.0 Type-C, RJ45-10/100/1000 GigaLAN port, Micro SDXC slot, docking connector

WLAN, BT, GPS, GLONASS

Support hand/ gloves and rain mode

MIL-STD-810H shock, vibration, and drop resistance

10.1" Windows Rugged Tablet
M101P

OPTIMUM SIZE, MAXIMUM PRODUCTIVITY.

- 10.1", 1920 x 1200, IPS LED
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional),
  Linux Ubuntu 20.04 (Optional)

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4 GB LPDDR4, 128 GB SSD, micro SDXC card slot

Light sensor, g-sensor, Gyro

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2 MP webcam, 8 MP rear camera with autofocus

Anti-glare touch treatment

USB 3.0 Type-A, USB 3.0 Type-C

WLAN, BT, GPS, GLONASS

IP65 waterproof and dustproof

MIL-STD-810G shock, vibration, and drop resistance

Custom configuration

Up to **8 GB** Memory	Up to **512 GB** Storage	Barcode Reader
WWAN	HF RFID Reader	Micro HDMI Port
High Capacity Battery 16hr	USB/RS-232 Expansion Port	

Application

Substation Field Work

"RUGGED AND MOBILE DEVICE TO STREAMLINE FIELD WORKERS EFFICIENCY"

Field workers in power substations usually work outside and require mobile devices to perform inspection, utility control and instant reporting.

M116P

BRILLIANT SUNLIGHT READABLE SCREEN.

- 11.6", 1920 x 1080, LED Panel
- Intel® Pentium® N4200 1.1 GHz, up to 2.5 GHz
- Windows 10 IoT Enterprise (Optional)

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4 GB LPDDR4, 128 GB SSD

Light sensor, g-sensor, Gyro

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2 MP webcam, 8 MP rear camera with autofocus

WLAN, BT, GPS, GLONASS

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

Smart Card Reader (Default M116PT)

Kensington lock

IP65 waterproof and dustproof

MIL-STD-810G shock, vibration, and drop resistance

11.6″ Windows Rugged Tablet
M116K

"HIGH PROCESSING POWER IN A RUGGED ENCLOSURE."

- 11.6″, 1920 x 1080, IPS LED
- Intel® Core™ i5-7200U 2.5 GHz, up to 3.1 GHz
- Intel® Core™ i5-7300U 2.60 GHz, up to 3.5 GHz (Optional)
- Windows 10 IoT Enterprise

4 GB DDR4, 128 GB SSD

Light sensor, g-sensor, Gyro

2 MP webcam, 8 MP rear camera with autofocus

Anti-glare touch treatment

WLAN, BT, GPS, GLONASS

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

TPM 2.0, Kensington lock

IP65 waterproof and dustproof

MIL-STD-810G shock, vibration, and drop resistance

Sunlight readable screen with an anti-glare solution

Custom configuration

Up to 16 GB	Up to 2 TB	WWAN
Memory	Storage	WWAN
GigaLAN Port	Barcode Reader	HF/ RFID Reader
Micro HDMI Port		

Application

Warehouse Management

"TRUSTWORTHY PERFORMANCE ACROSS THE LOGISTICS ECOSYSTEM"

The M116 series rugged tablet is purpose-built for warehouse, transportation, and field service applications. The M116 series delivers excellent performance, multiple wireless connectivity options, and data capture modules for various enterprise mobility applications. Use it all day, thanks to the hot-swap battery design.

M140TG/ M140TGT

NEW PRODUCT

Custom configuration

Up to **32 GB**
Memory
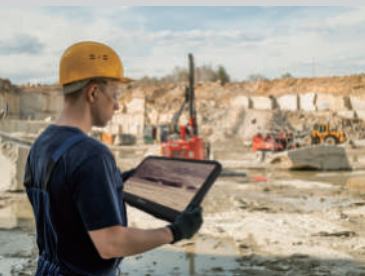
Up to **2 TB**
Storage

WWAN
WWAN

Smart Card Reader (M140TGT)

RFID
HF RFID Reader

Application

See The Data With Less Scrolling

"USE IT AT EASE ANYWHERE AND EVERY TIME"

The M140TGT's 14 inch tablet comes with an optional kickstand/hard handle, and mounting choices make it very easy to carry. Rest assured that the device can withstand the impact, shock, vibration, liquid spills, and dust.

FC C€

" ALWAYS ON INDUSTRIAL MOBILE PC. "

- 11th Gen. Intel® Processor Family – Tiger Lake Processor
- 14-inch tablet, 1920 x 1080 wide viewing angle LED Panel

Optical bonding and anti-glare technology for sunlight readability

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IP65 waterproof and dustproof

Hot-swappable battery for whole-day work

Integrated smart card reader

Operate in temperatures ranging from -20°C to 60°C (when charging) or -10°C to 50°C (on battery)

FM10Q

M700DQ8

E500QK

E430RQ8

RUGGED ANDROID TABLETS SET A NEW STANDARD FOR FIELD SERVICE WORKERS

PERFORMANCE IMPROVED.
FASTER THAN EVER.

Oil & Gas

Overview

Oil rigs and remote pipeline locations are the most dangerous and challenging work environments anywhere. Winmate rugged computers are designed for the harsh environments of an oil refinery or a drilling rig and come with ATEX Zone 2 and Class 1 Division 2 (C1D2) certifications. By employing automated processes, oil and gas companies can increase production wells, improve production control, and reap the benefits of modern technologies.

Technology

Winmate has technology know-how for the production and development of explosion-proof devices:

Intrinsic Safety Schematic Design

Our engineers design the intrinsic safety schematics for the explosion-proof product line. Our engineers design the electronic system to ensure that the temperature under all fault conditions can never rise to a value that may cause explosive gasses' ignition.
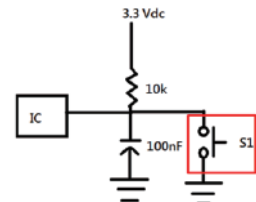
Intrinsically safe design

Non-Sparking Device

Our design guarantees that the ignition of a hazardous atmosphere does not occur. It is achieved by ensuring that only low voltages and currents enter the hazardous area and that no significant energy storage is possible.
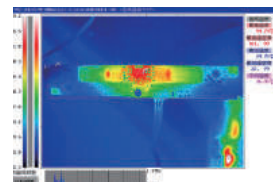
Thermal design

Application Story

Operator Control HMI for Oil Drilling Rig

Background

In the Oil & Gas industry, complex process control is required at all stages, from exploration, extraction, and transportation, to the refinement and the distribution of fossil fuels. These processes occur in harsh environments with the constant threat of dangerous substances in the air, where combustion can occur when proper precautions are ignored.

Core products

- ATEX Aluminum Panel PC
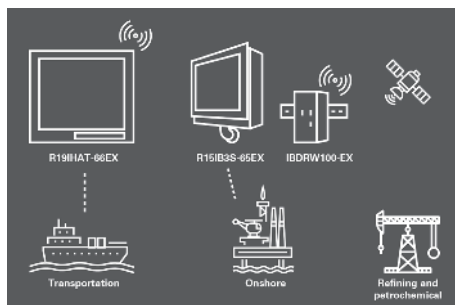- ATEX Stainless Display
- ATEX DIN-Rail Box PC

Main Challenges

- Hazardous working environment
- Wide operating temperature
- Explosion-proof solution

Why Winmate

- Certified for C1D2, ATEX Zone 2
- Large, high-brightness display with optical bonding technology
- Wide operating temperature

Winmate's ATEX HMI Panel PC

Application Diagram: Hazardous Locations

Application Story

Safe Operation in Hazardous

"With ATEX-Grade Industrial Rugged Panel PCs for Mining, Energy and Utilities Sectors"

Background

The mining sector entails numerous environmental challenges, off-grid location, dust, etc., that demands only the most rugged industrial Panel PCs available on the marketplace. These rugged industrial Panel PCs should assist various fieldwork-related capacities from numerous safety properties and vital technical applications to smooth-run the operations. At the same time, durable to hold up against the harshest climate conditions like severe temperature from subfreezing to extreme heat malfunctioning.

Mining is also a labor-intensive sector, making a sturdy and reputable touchscreen display is required. The devices used should handle on-site duties, increase and speed up work progress. Top-quality, rugged touchscreen PCs must be water- and dustproof, resistant to shock, vibration, drop, and anti-explosion. These features are essential for protecting the stability of the task at hand and ensuring the safety and security of the fieldworkers.

Core products

- R19IHAT-66EX - 19" Intel® Core™ i5/i7 ATEX 1000nits Panel PC

Main Challenges

- Sunlight readability.
- Devices that include external and internal applications to enhance and improve fieldwork.
- Need to withstand extreme weather and environmental conditions.
- Use in the hazardous area.

Why Winmate

- Certified for Hazardous Locations
- Fully Rugged and Waterproof Design
- Tailor-made for Your Needs

Application Diagram: Mining Sector

Application Story

Smart Charging Station Solution

Background

With countries worldwide introducing mandates to cut the number of diesel and petrol cars, drivers are looking towards the future dominant car technology, i.e., electric vehicles (EVs). Deloitte predicts that over 25.3 million EVs will be sold by 2030. With the rise in EV use, the demand for electric vehicle charging stations is soaring.

Smart electric vehicle charging stations are connected to the Cloud. This allows all users to log in, locate charging stations on a map, reserve specific locations, pay online, check the charging status, and view focused promotions. The dedicated mobile app can be accessed using a smartphone, laptop, tablet, or directly through a touch screen at the charging station.

Core products

- 7" ATEX grade Android Tablet
- 15" C1D2 Panel PC
- ATEX grade embedded system

Main Challenges

- Outdoor applications
- Wide Range Communication Capabilities
- Embedded OS support and One-Stop Shopping
- Product longevity

Why Winmate

- Rugged Design for outdoor applications
- Vast Experiences in hazardous environments
- Specially built for industrial needs
- Product customization supports

"
SMART OUTDOOR PUBLIC CHARGING STATIONS HMI FOR ELECTRIC VEHICLES.
"

Application Diagram: EV Charging

M700DQ8-EX

Custom configuration

WWAN

NFC RFID Reader

Application

Real-Time Data and Wireless Connectivity

"REAL TIME DATA AND WIRELESS CONNECTIVITY"

Real-time data access to the right information is crucial for mobile workers. With a host of features that include GPS / AGPS / GLONASS, WLAN, BT, and optional 4G LTE, workers can now share files or communicate with each other anytime and anywhere.

" **ATEX ZONE 2 CERTIFICATION.** "

- Qualcomm® Snapdragon™ 660, Octa-core up to 2.2 GHz
- ATEX grade rugged android PDA
- 1280 x 720, TFT Panel with direct optical bonding

Supports Android 9.0 OS

Sunlight readable android tablet

IP65 waterproof and dustproof

Rated for extreme temperature use

ATEX Zone 2 application certification

ATEX DIN Rail Box PC (C1D2)

IBDRW100-EX/ IBDRW100-EX-P

" **COMPACT FOR HAZARDOUS LOCATIONS.** "

- Class 1, Division 2 device certified for hazardous area application
- DIN Rail design for industrial automation applications
- Intel® Celeron® N2930 Bay Trail-M Processor (EX)
- Onboard Intel® Atom® Processor E3950 1.6 GHz, up to 2.0 GHz (EX-P)

1 x RS232 / 422 / 485 communication, select thru BIOS (EX-P)
1 x SO-DIMM, DDR3L 1866 MHz, 4GB
Fanless design
4 x Giga LAN, 3 x USB 3.2 Gen 1, 1 x USB 2.0, 1 x VGA, 1 x Line out, 1 x line in, 1 x Mic in, 1 x Power Jack (EX-P)
Fanless, streamlined enclosure for highly efficient heat Dissipation
AWS IoT Greengrass certified
Operating temperature -40°~70°C (EX-P)

Custom configuration

Up to **8 GB** Memory

Up to **512 GB** Storage

WLAN WLAN

Application

Petrochemical Processing Plant

"STABLE PERFORMANCE IN A COMPACT RUGGED DESIGN"

Winmate's compact fanless DIN-Rail Box PC IBDRW100-EX-P serves as the system controller of a monitoring system in a petrochemical plant to control and monitor on-site data.

C1D2 Box PC
ITMH100-EX

"CLASS 1 DIVISION 2, GROUP A-D, T5 CERTIFICATION. "

- Intel® Tiger Lake UP3 Core™ i5 1135G7
- Multi Video Output , HDMI/ Display Port

Auto detection of the connected display, no settings necessary

Quick & easy replaceable hard disk design, no tools required

Support wide range 9-29V DC input

Optional with modular front display as a Panel PC

Expansion slot for PCIex4

12.1" ~23.8" ATEX Panel PC
M Series

FC CE

" EXPLOSION PROOF. FOR SAFE OPERATIONS. "

- Intel® 11th Generation Tiger Lake UP3 Core™ i5 CPU
- Signature true flat display screen with edge-to-edge design
- Aluminum, anti-corrosion treated housing
- Superior sealing with front IP65 protection against dust and water

Projected Capacitive Multi-Touch Screen (PCAP)
Fanless design
Support wide range 9-29 V DC input
Quick & easy removable 2.5" SSD bay slot
Support PCIe x 4 card
Class 1 Division 2, Group A-D, certified for hazardous area application
Signature true flat display screen with edge-to-edge design
Superior sealing with front IP65 protection against dust and water

Custom configuration

Up to 32 GB	Up to 512 GB
Memory	Storage

WLAN	HDMI
WLAN	HDMI

DP
DP

Application

Oilfield Drilling Monitoring System

"THE HIGHEST STANDARD IN RELIABILITY AND SERVICE"

The M Series panel PCs was installed as part of an oilfield drilling monitoring system that now allows for better control over operations.

26

R15IB3S-65EX/
R15ID3S-65EX

" OPTIMIZE PERFORMANCE IN HAZARDOUS LOCATIONS. "

- 15", 1024 x 768, PCAP touchscreen
- Intel® Celeron® Processor N2930 (R15IB3S-65EX)
  Intel® Atom® N2600 Processor (R15ID3S-65EX)
- Windows IoT Enterprise/ Linux Ubuntu

Class 1, Division 2 & ATEX Zone 2 certified for hazardous area applications

Fanless, streamlined enclosure for highly efficient heat dissipation

Five wire resistive touch screen (Explosion-proof) (R15ID3S-65EX)

Stainless housing

Wide operation temperature from -20 to 50°C

Projected Capacitive Multi-Touch Screen (PCAP) (R15IB3S-65EX)

Application

Gas Pipe Monitoring

"GAS DISTRIBUTION PROCESS VISUALIZATION AND OPERATOR CONTROL"

ATEX-certified 15" panel PC R15IB3S-65EX visualizes each step of the gas distribution journey from extraction to the refinery to improve production control and monitor possible leakage.

19" ATEX Panel PC
R19IHAT-66EX/
R19IHAT-66EX-T

" OPTIMIZE PERFORMANCE IN HAZARDOUS LOCATIONS. "

- 19", 800 nits LCD panel PC (Optional 1000 nits)
- Intel® Haswell Core™ i5-4300U (Optional i7-4650U) (EX)
- Intel® 11th Tiger Lake Core™ i5-1135G7 Processor (EX-T)
- Windows IoT Enterprise/ Linux Ubuntu

Class 1, Division 2 & ATEX Zone 2 certified for hazardous area applications
Fanless, streamlined enclosure for highly efficient heat dissipation
Aluminum housing
Intelligent heater for working in extreme cold environments -40°C
4GB SO-DIMM, DDR3L 1600 MHz (EX)
4GB SO-DIMM, DDR4 3200 MHz (EX-T)
VESA mount and Panel mount

Custom configuration

Up to 8 GB
Memory (EX)

Up to 64 GB
Memory (EX-T)

Up to 512 GB
Storage

Application

Field Work Inspection

"INDUSTRIAL ATEX PANEL PC FOR PORTABLE DIGITAL RADIOGRAPHY."

With portable digital radiography (DR) technology, field workers can use its x-ray scanning features to evaluate power lines and even preventive maintenance in oil or gas applications.

R15L600-65EX

Custom configuration

M12 Type
RS232

1000
Brightness

Application

Oilfield Drilling Monitoring System

"THE HIGHEST STANDARD
IN RELIABILITY AND
SERVICE"

The 15" aluminum display was installed as part of an oilfield drilling monitoring system that now allows for better control over operations.

EXPLOSION PROOF. FOR SAFE OPERATIONS.

- 15", 1024 x 768, 550 nits LCD Panel
- Stainless steel design
- Fanless design

Explosion-proof 5-wire resistive touch

IP65 Certified, dust-proof and water-resistant

Support 9-36V DC input, M12 Type connector

Class 1, Division 2 & ATEX Zone 2 application certification

Wide temperature range -20°C to 50°C

6.5"~23.8" Outdoor Display
Resistive Display

FC C E

REACH BEYOND THE FRONT DOOR.

- Industrial-grade high-quality and high-resolutions displays
- Wide temperature liquid crystal panel is up to 60°C

Backlight design to ensure high reliability and durability

High humidity and durability testing to ensure reliability in outdoor environments circular polarizer design provides sunlight readability

Comprehensive product line is available in sizes ranging from 6.5" to 23.8" for optimum visibility in outdoor

Custom configuration

HDMI

DVI

Audio line in & Speaker

-25~60°C Wide temperature solution

Application

Captivate Your Audience with Outdoor Displays

"BUILT TO WEATHER THE STORM AND DISPLAYS THAT SHINE IN ANY LIGHT"

With Winmate, you can extend your message beyond your business, whether it's in your storefront window or outside in the elements. Ready to work around the clock, Winmate outdoor digital signage and window displays empower you to always present a dynamic and vibrant message.

Custom configuration

HDMI

DVI

Audio line in
& Speaker

-25~60°C
Wide temperature
solution

Application

Outdoor Smart
Signage Solutions

"DISPLAY YOUR MESSAGE
IN HEAT, COLD, RAIN,
SNOW AND DUST"

Winmate outdoor digital
signage engineered from the
ground up to weather the
elements with high-brightness,
protective glass and IP56
certification.

7"~55" Outdoor Display
PCAP Display

FC C€

" OUTDOOR DIGITAL SIGNAGE AND WINDOW DISPLAY. "

- Industrial-grade high-quality and high-resolutions displays
- Wide temperature liquid crystal panel is up to 60°C

Backlight design to ensure high reliability and durability

High humidity and durability testing to ensure reliability in outdoor environments circular polarizer design provides sunlight readability

Comprehensive product line is available in sizes ranging from 7" to 55" for optimum visibility in outdoor

BRIGHT TO MEET YOUR CUSTOMERS WHERE THEY ARE

RUGGED COMPUTING PRODUCTS FOR MISSION CRITICAL

TOMORROW'S TECHNOLOGY FOR TODAY'S CHALLENGE

Ex COMPLIANT MIL-STD 810G INGRESS PROTECTION IP65 c UL us LISTED TS TD0700KL FC C E