Oil & Gas

Drive production.
About Winmate

Headquartered in Taipei, Taiwan, Winmate Inc. has been dedicated to researching, developing and manufacturing the latest in industrial displays and rugged devices for 20 years.

Today, Winmate creates intelligent systems that advance the Internet of Things (IoT) and enterprise-level communications across the globe for industrial and high-tech clients. High standards for technology and quality control have established Winmate as a leader for the last 20 years and set the standard for continued excellence.

Value-added partner

Strong Rugged Design Team
To Meet Environmental Challenges (EE, ME)

Talented Software Team
To Enable IoT & Industrial Application

System Integration Experience
For Rugged & Industrial Mobile Devices

Customized solutions

Years of experience allow Winmate to offer customized solutions for different applications. From product design to creating accessories, our engineering team designs and supports your needs throughout the whole system integration process.

CUSTOMIZED INTERFACES
CUSTOM OS IMAGE
CUSTOM BIOS
ENCLOSURE DESIGN
PERIPHERALS AND OPTIONS
CUSTOM-DESIGNED ACCESSORIES
Oil and Gas Solutions

Overview

Oil rigs and remote pipeline locations are some of the most dangerous and challenging work environments anywhere. When looking for electronics to support these environments, devices must stand up to three key requirements:

1. Provide advanced system monitoring even in the most challenging conditions.
2. Accurately identify and track assets and communicate data from remote sites.
3. Withstand the highest scrutiny of certification and inspection.

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 the number of production wells, improve production control and reap the benefits of modern technologies.

Technology

Testing & Certifications

To meet the safety qualification, Winmate offers ATEX and Class 1 Division 2 (C1D2) certified solutions for maintaining safe operations and collecting detailed, sensitive data in remote rig and pipeline locations.

For the classification of the equipment, Winmate generally uses both the North American National Electric Code (NEC) and the European ATEX directive.

NEC and IEC Certifications

<table>
<thead>
<tr>
<th>NEC (National Electric Code)</th>
<th>IEC (International Electrochemical Commission)</th>
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<tbody>
<tr>
<td>What type of hazardous substance is present?</td>
<td>What type of hazardous substance is present?</td>
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<tr>
<td>How often is the hazardous substance present?</td>
<td>How often is the hazardous substance present?</td>
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<tr>
<td>Specific material properties</td>
<td>Specific material properties</td>
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<table>
<thead>
<tr>
<th>Class 1</th>
<th>Flammable Gases</th>
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</thead>
<tbody>
<tr>
<td>Division 1</td>
<td>Acetylene</td>
</tr>
<tr>
<td>Division 2</td>
<td>Hydrogen</td>
</tr>
<tr>
<td>Division 2</td>
<td>Ethylene</td>
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<tr>
<td>Division 2</td>
<td>Propane</td>
</tr>
<tr>
<td>Division 2</td>
<td>Metal Dust</td>
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<table>
<thead>
<tr>
<th>Class 2</th>
<th>Flammable Dust</th>
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</thead>
<tbody>
<tr>
<td>Division 1</td>
<td>Flake</td>
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<tr>
<td>Division 2</td>
<td>Dust</td>
</tr>
<tr>
<td>Division 2</td>
<td>Dust</td>
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</table>

<table>
<thead>
<tr>
<th>Class 3</th>
<th>Flammable Fibers</th>
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</thead>
<tbody>
<tr>
<td>Division 1</td>
<td>Dust</td>
</tr>
<tr>
<td>Division 2</td>
<td>Dust</td>
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</table>

<table>
<thead>
<tr>
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<th>Gases: Zone 0</th>
<th>Dust: Zone 20</th>
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<tbody>
<tr>
<td>How often is the hazardous substance present?</td>
<td>Gases: Zone 1</td>
<td>Dust: Zone 21</td>
</tr>
<tr>
<td>Specific material properties</td>
<td>Gases: Zone 2</td>
<td>Dust: Zone 22</td>
</tr>
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</table>
Oilfield Drilling Monitoring System

“THE HIGHEST STANDARD IN RELIABILITY AND SERVICE.”

The 19-inch aluminum panel PC was implemented as part of an oilfield drilling monitoring system that now allows for better control over operations.

C1D2 and ATEX-Certified 19-inch Panel PC

R19IHAT-66EX

Custom configuration

- High brightness
- 2nd Storage
- Wi-Fi
- Bluetooth

Application

EXPLOSION PROOF. FOR SAFE OPERATIONS.

- 19-inch, 1280 x 1024 screen
- Intel® Core™ i7-4650U
- Windows 10/8/7

Class 1, Division 2 & ATEX Zone 2
4 GB DDR3L SO-DIMM
128GB mSATA SSD
Projected capacitive touch, optical bonding
Fanless cooling system
Aluminum housing
Touch screen control physical button
VESAs mount
+9~36V DC wide power input with isolation
-40°C to 70°C wide operating temperature

Accessories

Standard
- Open Wire Cable
- Terminal Block DIDO
- Terminal Block Adapter
- VESA Screws
- Cable Holder Clip
- DIN Rail Mount Clip
- Power Cord
- Power Converter Cable (0.15 m)

Optional
- Side Handle
- WiFi Antenna Extension Cable
C1D2 and ATEX-Certified 15-inch Panel PC & Display

R15IB3S-65EX
R15L600-65EX

“OPTIMIZE PERFORMANCE IN HAZARDOUS LOCATIONS.”

- 15-inch, 1024 x 768 screen
- Intel® Celeron® N2930 Bay Trail-M
- Windows 10/8/7
- Display configuration

Class 1, Division 2, ATEX Zone 2, IECEx Zone 2

Projected capacitive touch, optical bonding

Fanless cooling system

Stainless housing

VESA mount

+9~36V DC wide power input with isolation

-20°C to 50°C operating temperature

Gas Pipe Monitoring

“GAS DISTRIBUTION PROCESS VISUALIZATION AND OPERATOR CONTROL.”

ATEX-certified panel PC visualizes each step of the gas distribution journey from extraction to refinery to improve production control and monitor possible leakage.
C1D2 and ATEX-Certified DIN-Rail Box PC

IBDRW100-EX

“PROCESSING POWER IN RUGGED HOUSING.”

• Intel® Celeron® N2930 Bay Trail-M
• Windows 10/8/7
• DIN-Rail mounting

Class 1, Division 2, ATEX Zone 2
RS-232/422/485 communication port, switch by jumper
Digital I/O
Four Giga LAN
VGA video output
One USB 3.0, three USB 2.0
Fanless, streamlined enclosure
-20°C to 60°C wide operating temperature

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Power Adapter</th>
<th>Power Cable</th>
<th>Open Wire Cable</th>
<th>Terminal Block DIDO</th>
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<tbody>
<tr>
<td>Terminal Block Adapter</td>
<td></td>
<td>Cable Holder Kit</td>
<td>DIN Rail Mount</td>
<td>Clip</td>
</tr>
</tbody>
</table>

Pumping Station Data Collection

“COMMUNICATE DATA FROM REMOTE SIDES.”
Collect and monitor data from oil and gas pressure sensors deployed within pumping station for oil and gas production.
HAZLOC SERIES
C1D2 AND ATEX CERTIFIED
EXPLOSION PROOF COMPUTING SOLUTIONS FOR SAFE OPERATIONS.
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