



# 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.

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CUSTOMIZED INTERFACES

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CUSTOM OS IMAGE

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CUSTOM BIOS

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ENCLOSURE DESIGN

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PERIPHERALS AND OPTIONS

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CUSTOM-DESIGNED ACCESSORIES

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# 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.

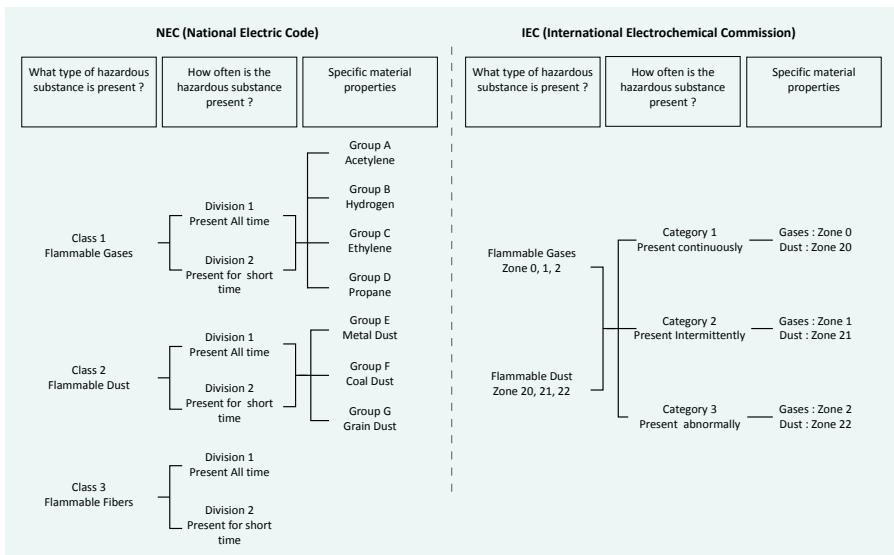
## Technology

### 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



# C1D2 and ATEX-Certified 19-inch Panel PC

## R19IHAT-66EX

### Custom configuration



High  
brightness



2<sup>nd</sup> Storage



Wi-Fi



Bluetooth



“ **EXPLOSION PROOF.  
FOR SAFE OPERATIONS.** ”

### Application



### 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.

- 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

VESA 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
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# 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

### Accessories

#### Standard

RS232 Cable	USB Cable	RJ45 cable	Power adapter
Ethernet Extension Adapter	USB Adapter	Power Cord	VESA Screws

### Custom configuration



Memory



Storage



High  
brightness

### Application



### 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



### Custom configuration



Memory



Storage



2<sup>nd</sup> Storage



Wi-Fi



4G

### Application



### 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.

“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

#### Standard

Power Adapter  
Terminal Block  
Adapter

Power Cable  
Cable Holder Kit

Open Wire Cable  
DIN Rail Mount  
Clip

Terminal Block DIDO

# HAZLOC SERIES

C1D2 AND ATEX  
CERTIFIED  
EXPLOSION PROOF  
COMPUTING  
SOLUTIONS FOR  
SAFE OPERATIONS.



I.T.E FOR USE IN  
HAZ. LOC.  
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