

# **Intelligent Remote Terminal Unit Market by Product Type (Wired Intelligent RTU, Wireless Intelligent RTU), End User (Oil and gas, Power, Chemical, Water and wastewater, and Others), and Region 2024-2032**

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## **Abstracts**

The global intelligent remote terminal unit market size reached US\$ 3.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.2 Billion by 2032, exhibiting a growth rate (CAGR) of 5.06% during 2024-2032. Significant rise in electricity consumption, rapid industrialization, and the growing demand for freshwater supplies represent some of the key factors driving the market.

An intelligent remote terminal unit (iRTU) is a microprocessor-based electronic equipment used for remote monitoring of various devices and systems for automation via the internet. It monitors both the digital and analog field parameters and transmits data to a supervisory control and data acquisition (SCADA) master station. It runs setup software to connect data input streams to output streams, troubleshoot installation problems, and define communication protocols. It is widely employed in several processes, including petrochemical (oil) and refineries and nuclear power, chemical, sewage treatment and water treatment plants. Besides this, iRTU is used in agriculture, quality control, food processing, automobile manufacturing, and pharmaceutical manufacturing processes. At present, iRTU providers are focusing on developing more efficient solutions to attract more customers and maximize revenue.

**Intelligent Remote Terminal Unit Market Trends:**

Presently, a considerable increase in electricity consumption on account of the growing population and industrialization represents one of the key factors positively influencing the market. The development of power infrastructure to prevent frequent power outage problems is also driving the usage of iRTUs to improve the efficiency of the

transmission and distribution network. In addition, the increasing adoption of remote monitoring (RPM) systems by various industries, especially asset-intensive industries, is creating a positive market outlook. These industries are facing the difficulty of achieving high operating efficiency due to power fluctuations that damage the functioning of important equipment, resulting in significant revenue loss. Furthermore, the growing demand for freshwater supplies in urban areas and the rising water pollution level are other factors catalyzing the demand for iRTUs worldwide. Water utilities are continuously investing in innovative technologies and utilizing SCADA systems to enhance water infrastructure monitoring capabilities and monitor important assets of water treatment plants. Moreover, the shifting consumer preferences towards electric vehicles (EVs) to minimize harmful emissions and support environmental health, along with the integration of renewable energy, is creating a massive load on existing power transmission and distribution assets. Consequently, there is an increase in the need for converting conventional grids to smart grids. Furthermore, the rising number of smart grid projects across numerous countries is expected to drive the demand for SCADA systems and, in turn, propel the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global intelligent remote terminal unit market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on product type and end user.

#### Product Type Insights:

Wired Intelligent RTU

Wireless Intelligent RTU

The report has provided a detailed breakup and analysis of the intelligent remote terminal unit market based on the product type. This includes wired intelligent RTU and wireless intelligent RTU. According to the report, wired intelligent RTU represented the largest segment.

#### End User Insights:

Oil and gas

Power

Chemical

Water and wastewater

## Others

A detailed breakup and analysis of the intelligent remote terminal unit market based on the end user has also been provided in the report. This includes oil and gas, power, chemical, water and wastewater, and others. According to the report, oil and gas accounted for the largest market share.

## Regional Insights:

### North America

United States

Canada

### Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

### Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

### Latin America

Brazil

Mexico

Others

### Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada), Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others), Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others), Latin America (Brazil, Mexico, and others), and the Middle East and Africa. According to the report, Europe

was the largest market for intelligent remote terminal unit. Some of the factors driving the Europe intelligent remote terminal unit market included the expansion of numerous industries, the increasing need for power and water supply across residential and commercial sectors, and various smart grid projects.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global intelligent remote terminal unit market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Advantech Co. Ltd., Emerson Electric Co., General Electric Co., Hitachi Energy Ltd. (Hitachi Ltd.), Honeywell International Inc., Rockwell Automation Inc., Schneider Electric SE, Siemens AG, Yokogawa Electric Corporation, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report

1. How big is the global intelligent remote terminal unit market?
2. What is the expected growth rate of the global intelligent remote terminal unit market during 2024-2032?
3. What are the key factors driving the global intelligent remote terminal unit market?
4. What has been the impact of COVID-19 on the global intelligent remote terminal unit market?
5. What is the breakup of the global intelligent remote terminal unit market based on the product type?
6. What is the breakup of the global intelligent remote terminal unit market based on the end user?
7. What are the key regions in the global intelligent remote terminal unit market?
8. Who are the key players/companies in the global intelligent remote terminal unit market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL INTELLIGENT REMOTE TERMINAL UNIT MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT TYPE**

- 6.1 Wired Intelligent RTU
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Wireless Intelligent RTU
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast

## **7 MARKET BREAKUP BY END USER**

### 7.1 Oil and gas

#### 7.1.1 Market Trends

#### 7.1.2 Market Forecast

### 7.2 Power

#### 7.2.1 Market Trends

#### 7.2.2 Market Forecast

### 7.3 Chemical

#### 7.3.1 Market Trends

#### 7.3.2 Market Forecast

### 7.4 Water and Wastewater

#### 7.4.1 Market Trends

#### 7.4.2 Market Forecast

### 7.5 Others

#### 7.5.1 Market Trends

#### 7.5.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

### 8.1 North America

#### 8.1.1 United States

##### 8.1.1.1 Market Trends

##### 8.1.1.2 Market Forecast

#### 8.1.2 Canada

##### 8.1.2.1 Market Trends

##### 8.1.2.2 Market Forecast

### 8.2 Asia-Pacific

#### 8.2.1 China

##### 8.2.1.1 Market Trends

##### 8.2.1.2 Market Forecast

#### 8.2.2 Japan

##### 8.2.2.1 Market Trends

##### 8.2.2.2 Market Forecast

#### 8.2.3 India

##### 8.2.3.1 Market Trends

##### 8.2.3.2 Market Forecast

#### 8.2.4 South Korea

##### 8.2.4.1 Market Trends

- 8.2.4.2 Market Forecast
- 8.2.5 Australia
  - 8.2.5.1 Market Trends
  - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
  - 8.2.6.1 Market Trends
  - 8.2.6.2 Market Forecast
- 8.2.7 Others
  - 8.2.7.1 Market Trends
  - 8.2.7.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Germany
    - 8.3.1.1 Market Trends
    - 8.3.1.2 Market Forecast
  - 8.3.2 France
    - 8.3.2.1 Market Trends
    - 8.3.2.2 Market Forecast
  - 8.3.3 United Kingdom
    - 8.3.3.1 Market Trends
    - 8.3.3.2 Market Forecast
  - 8.3.4 Italy
    - 8.3.4.1 Market Trends
    - 8.3.4.2 Market Forecast
  - 8.3.5 Spain
    - 8.3.5.1 Market Trends
    - 8.3.5.2 Market Forecast
  - 8.3.6 Russia
    - 8.3.6.1 Market Trends
    - 8.3.6.2 Market Forecast
  - 8.3.7 Others
    - 8.3.7.1 Market Trends
    - 8.3.7.2 Market Forecast
- 8.4 Latin America
  - 8.4.1 Brazil
    - 8.4.1.1 Market Trends
    - 8.4.1.2 Market Forecast
  - 8.4.2 Mexico
    - 8.4.2.1 Market Trends
    - 8.4.2.2 Market Forecast

### 8.4.3 Others

#### 8.4.3.1 Market Trends

#### 8.4.3.2 Market Forecast

### 8.5 Middle East and Africa

#### 8.5.1 Market Trends

#### 8.5.2 Market Breakup by Country

#### 8.5.3 Market Forecast

## **9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES**

### 9.1 Overview

### 9.2 Drivers

### 9.3 Restraints

### 9.4 Opportunities

## **10 VALUE CHAIN ANALYSIS**

## **11 PORTERS FIVE FORCES ANALYSIS**

### 11.1 Overview

### 11.2 Bargaining Power of Buyers

### 11.3 Bargaining Power of Suppliers

### 11.4 Degree of Competition

### 11.5 Threat of New Entrants

### 11.6 Threat of Substitutes

## **12 PRICE ANALYSIS**

## **13 COMPETITIVE LANDSCAPE**

### 13.1 Market Structure

### 13.2 Key Players

### 13.3 Profiles of Key Players

#### 13.3.1 Advantech Co. Ltd.

##### 13.3.1.1 Company Overview

##### 13.3.1.2 Product Portfolio

##### 13.3.1.3 Financials

#### 13.3.2 Emerson Electric Co.

##### 13.3.2.1 Company Overview



- 13.3.2.2 Product Portfolio
- 13.3.2.3 Financials
- 13.3.2.4 SWOT Analysis
- 13.3.3 General Electric Company
  - 13.3.3.1 Company Overview
  - 13.3.3.2 Product Portfolio
  - 13.3.3.3 Financials
  - 13.3.3.4 SWOT Analysis
- 13.3.4 Hitachi Energy Ltd. (Hitachi Ltd.)
  - 13.3.4.1 Company Overview
  - 13.3.4.2 Product Portfolio
- 13.3.5 Honeywell International Inc.
  - 13.3.5.1 Company Overview
  - 13.3.5.2 Product Portfolio
  - 13.3.5.3 Financials
  - 13.3.5.4 SWOT Analysis
- 13.3.6 Rockwell Automation Inc.
  - 13.3.6.1 Company Overview
  - 13.3.6.2 Product Portfolio
  - 13.3.6.3 Financials
  - 13.3.6.4 SWOT Analysis
- 13.3.7 Schneider Electric SE
  - 13.3.7.1 Company Overview
  - 13.3.7.2 Product Portfolio
  - 13.3.7.3 Financials
  - 13.3.7.4 SWOT Analysis
- 13.3.8 Siemens AG
  - 13.3.8.1 Company Overview
  - 13.3.8.2 Product Portfolio
  - 13.3.8.3 Financials
  - 13.3.8.4 SWOT Analysis
- 13.3.9 Yokogawa Electric Corporation
  - 13.3.9.1 Company Overview
  - 13.3.9.2 Product Portfolio
  - 13.3.9.3 Financials
  - 13.3.9.4 SWOT Analysis

Kindly, note that this only represents a partial list of companies, and the complete list has been provided in the report.

## List Of Tables

### LIST OF TABLES

Table 1: Global: Intelligent Remote Terminal Unit Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Intelligent Remote Terminal Unit Market Forecast: Breakup by Product Type (in Million US\$), 2024-2032

Table 3: Global: Intelligent Remote Terminal Unit Market Forecast: Breakup by End User (in Million US\$), 2024-2032

Table 4: Global: Intelligent Remote Terminal Unit Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Intelligent Remote Terminal Unit Market: Competitive Structure

Table 6: Global: Intelligent Remote Terminal Unit Market: Key Players

## List Of Figures

### LIST OF FIGURES

- Figure 1: Global: Intelligent Remote Terminal Unit Market: Major Drivers and Challenges
- Figure 2: Global: Intelligent Remote Terminal Unit Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 4: Global: Intelligent Remote Terminal Unit Market: Breakup by Product Type (in %), 2023
- Figure 5: Global: Intelligent Remote Terminal Unit Market: Breakup by End User (in %), 2023
- Figure 6: Global: Intelligent Remote Terminal Unit Market: Breakup by Region (in %), 2023
- Figure 7: Global: Intelligent Remote Terminal Unit (Wired Intelligent RTU) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 8: Global: Intelligent Remote Terminal Unit (Wired Intelligent RTU) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 9: Global: Intelligent Remote Terminal Unit (Wireless Intelligent RTU) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 10: Global: Intelligent Remote Terminal Unit (Wireless Intelligent RTU) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 11: Global: Intelligent Remote Terminal Unit (Oil and Gas) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 12: Global: Intelligent Remote Terminal Unit (Oil and Gas) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 13: Global: Intelligent Remote Terminal Unit (Power) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: Intelligent Remote Terminal Unit (Power) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: Global: Intelligent Remote Terminal Unit (Chemical) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: Global: Intelligent Remote Terminal Unit (Chemical) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: Global: Intelligent Remote Terminal Unit (Water and Wastewater) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: Global: Intelligent Remote Terminal Unit (Water and Wastewater) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Intelligent Remote Terminal Unit (Other End Users) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Intelligent Remote Terminal Unit (Other End Users) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: North America: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: North America: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: United States: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: United States: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Canada: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Canada: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Asia-Pacific: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Asia-Pacific: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: China: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: China: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Japan: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Japan: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: India: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: India: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: South Korea: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: South Korea: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Australia: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Australia: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Indonesia: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Indonesia: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Others: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Others: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Europe: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Europe: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Germany: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Germany: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: France: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: France: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: United Kingdom: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: United Kingdom: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Italy: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Italy: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Spain: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Spain: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Russia: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Russia: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Others: Intelligent Remote Terminal Unit Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 58: Others: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Latin America: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Latin America: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Brazil: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Brazil: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Mexico: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Mexico: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Others: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Others: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Middle East and Africa: Intelligent Remote Terminal Unit Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Middle East and Africa: Intelligent Remote Terminal Unit Market: Breakup by Country (in %), 2023

Figure 69: Middle East and Africa: Intelligent Remote Terminal Unit Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Global: Intelligent Remote Terminal Unit Industry: Drivers, Restraints, and Opportunities

Figure 71: Global: Intelligent Remote Terminal Unit Industry: Value Chain Analysis

Figure 72: Global: Intelligent Remote Terminal Unit Industry: Porter's Five Forces Analysis

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