

Explosion Proof Mobile Communication Devices - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The Explosion Proof Mobile Communication Devices Market size is estimated at USD 660 million in 2024, and is expected to reach USD 995.16 million by 2029, growing at a CAGR of 8.56% during the forecast period (2024-2029).

Amid the pandemic, the demand for electronics is disrupted, owing to which the equipment market has been severely influenced. The production shutdown in various countries during the initial months of the pandemic resulted in the electronics industry observing a shortage of supply of electronics. The overall shipment of these devices during Q1 2020 and Q2 2020 slumped due to a decrease in business activities across the world. However, the additional inventory of electronics maintained by the OEMs was sufficient for the production of electrical products until the end of April. Such trends are expected to affect the growth of the studied market in the forecast period.

Key Highlights

- Secure communications are one of the most critical areas for businesses operating in hazardous areas. Inherently, these companies need access to information and remain informed continuously on avoiding dangers of explosions and catastrophes, due to the complexity of operations involved. Explosions can be devastating and cause huge losses of life, property, and capital, and damage the environment.
- Oil refineries, petrochemical plants, mining quarries, chemical factories, and corn mills are prone to high risks, due to the presence of highly inflammable substances in large quantities. They need to be continuously monitored to ensure safety and productivity. Explosion proof communication devices may be used to transmit images, data, and voice to monitor and control such places.
- As the remote and integrated operations in hazardous locations are becoming more widespread, an ever-increasing amount of information is being exchanged from offshore to onshore facilities. Hence, the demand is growing for explosion-proof safe

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smartphones, tablets, PCs, cameras, and control and monitoring systems offered with integrated wireless networking.

-Additionally, the number of explosions occurred in the extreme environment of manufacturing industries is increasing. Hence, the focus on the safety of hazardous locations is growing because of the presence of chemicals, toxic paints, and other combustible dust has prompted an increased focus on explosion-proof communication devices.

-However, varying safety regulations country to country across the globe is restricting companies to develop products incompatible with all countries. This factor somewhere restricting the explosion-proof mobile communication devices market growth.

Explosion Proof Mobile Communication Devices Market Trends

Oil and Gas Industry Expected to Show Significant Growth

- The oil and gas industry nurtures a robust safety culture, even under the most benign circumstances. Governing bodies, such as the US Occupational Health and Safety Administration (OSHA), classifies the oil and gas industry into distinct segments: oil and gas extraction, drilling oil and gas wells, and support activities for oil and gas operations. A worker working on any of these segments is likely to work in hazardous conditions, including exposure to chemicals, risk of fire or explosion, remote locales, and confined spaces such as wells or pipelines and machines.

- Additionally, the increasing demand for crude oil and finished oils, including heating oil and diesel fuel in the automobile, energy, machinery manufacturing, electricity, chemicals, and metallurgy sectors worldwide further boosted the need for more oil and gas exploration processes, indirectly driving the demand for explosion-proof mobile communication devices.

- Communication devices have a crucial role in the industry in terms of enhancing production with real-time data transfer and communication. The increasing adoption of IoT devices in the industry offers a reduction in cost and time of operation. It also improves the safe environment for the offshore workforce.

- In response to this, the US government has laid out some stringent regulations about the policies and safety equipment to be used. These policies included the usage of explosion-proof devices to provide safety. The implementation of safety policies is anticipated to increase the dependence on explosion-proof equipment, indirectly boosting the growth of the global market.

- In May 2020, Wincomm, a medical and industrial computer provider, launched the Explosion Proof Panel PC, WTPE series, built to suit hazardous environments undergoing rigorous testing to ensure safety and top performance offering the best solution for environments with explosion considerations. According to the company, the WTPE works well in oil & gas industry, chemical manufacturing, power generation, distilleries and other hazardous industrial applications.

North America to Hold the Largest Share

- North America is set to hold a significant position in the global explosion-proof mobile communication devices market over the forecast period, owing to the government's strict regulations, especially in the United States, toward hazard safety measures.

- The regional process industries, especially chemicals, oil and gas, and refining plants, face numerous hazardous situations with the potential to cause massive explosions. For instance, explosions incidents at Tri-Chem Industries in the United States and BP's Texas City Refinery occurred mainly due to a lack of correct and timely information, leading to an inability to act appropriately to arise situations in these hazardous locations.

- The Federal Emergency Management Agency is likely to increase the funding to reduce the number of disasters by taking necessary measures. This may lead to a demand for explosion-proof real-time communication devices, thereby boosting the market growth.

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used. These policies included the usage of explosion-proof devices to provide safety. Implementing safety policies is anticipated to increase the dependence on explosion-proof equipment, indirectly boosting the growth of the global market.

Explosion Proof Mobile Communication Devices Industry Overview

The explosion-proof mobile communication devices market concentration is inclined towards the consolidation with a few major players like Kyocera Corporation in the market offering the products. But new players are entering into the market offering these products, and it is expected to follow a similar trend in the forecast period.

- November 2020 - ECOM Instruments GmbH announced a new generation of its intrinsically safe 4G/LTE Android smartphone Smart-Ex 02. The device consisted of a large 5-inch display and is said to support 21 different LTE frequency bands. The company claims that the device is the most advanced explosion-proof smartphone for Zone 1/21 and Div. 1 areas and simplifies communication between employees, backend systems, and the control center.

- October 2020 - Pepperl+Fuchs introduced the new generation of its intrinsically safe 4G/LTE Android smartphone Smart-Ex 02. With a large 5-inch display, the newly developed Smart-Ex 02 is the company's advanced explosion-proof smartphone for Zone 1/21 and Div. 1.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

- 4.1 Market Overview
- 4.2 Industry Value Chain Analysis
- 4.3 Industry Attractiveness - Porters Five Force Analysis
 - 4.3.1 Threat of New Entrants
 - 4.3.2 Bargaining Power of Buyers/Consumers
 - 4.3.3 Bargaining Power of Suppliers
 - 4.3.4 Threat of Substitute Products
 - 4.3.5 Intensity of Competitive Rivalry
- 4.4 Market Drivers
 - 4.4.1 Need for Fast and Seamless Voice, Image, and Data Transfer in Industries
 - 4.4.2 Government Rules and Regulations on the Use of Safe Equipment in Hazardous Places
- 4.5 Market Restraints

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4.5.1 Safety Regulations Vary Across Different Regions

4.6 Impact of COVID-19 on the Market

4.7 Technology Snapshot

5 MARKET SEGMENTATION

5.1 Product

5.1.1 Smartphones and Cellphones

5.1.2 Two-way Radios

5.1.3 Handheld PC

5.1.4 Headsets

5.1.5 Tablets

5.1.6 Other Products

5.2 End-User Industry

5.2.1 Oil and Gas

5.2.2 Mining

5.2.3 Manufacturing and Processing

5.2.4 Chemical and Pharmaceutical

5.2.5 Defense

5.2.6 Other End-user Industries

5.3 Geography

5.3.1 North America

5.3.2 Europe

5.3.3 Asia Pacific

5.3.4 Latin America

5.3.5 Middle East & Africa

6 COMPETITIVE LANDSCAPE

6.1 Company Profiles

6.1.1 Aegex Technologies LLC

6.1.2 I.Safe MOBILE GmbH

6.1.3 Xciel Inc.

6.1.4 Kyocera Corporation

6.1.5 RugGear

6.1.6 Zebra Technologies Corporation (Xplore Technologies Corp.)

6.1.7 Getac Technology Corporation

6.1.8 Panasonic Corporation

6.1.9 Caterpillar Inc.

6.1.10 Sonim Technologies Inc.

6.1.11 Airacom Limited

6.1.12 Bartec GmbH

7 INVESTMENT ANALYSIS

8 FUTURE OF THE MARKET

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