

Global Explosion-proof Router Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1C083824234EN.html>

Date: April 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G1C083824234EN

Abstracts

The global Explosion-proof Router market size is expected to reach \$ 381 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global Explosion-proof Router production reached approximately 68.6 K units, with an average global market price of around US\$ 3512 per unit.

An Explosion-proof Router refers to an industrial communication routing device or routing-capable wireless access system designed for deployment in hazardous areas containing flammable gases, vapors, dust, or similar substances. It is utilized to facilitate data transmission, remote access, VPN connectivity, firewall isolation, wireless backhaul, and industrial network interconnection between field devices and control systems, as well as between edge sites and cloud platforms.

The industrial transition to wireless technology is advancing in tandem with the digitalization of hazardous areas. Facilities across the petrochemical, offshore platform, pharmaceutical, mining, and energy sectors increasingly require the deployment of Wi-Fi, LTE/5G, IoT gateways, and remote monitoring networks within hazardous zones. These deployments are essential for supporting mobile inspections, IIoT data acquisition, video and voice communications, asset tracking, and predictive maintenance. BARTEC has explicitly stated that its wireless solutions for hazardous areas support Wi-Fi, LTE routers, UHF RFID, LoRa, WirelessHART, and ISA100; similarly, Pepperl+Fuchs has emphasized that wireless access in hazardous areas is becoming a critical foundation for continuous communication and process automation.

Cybersecurity capabilities have emerged as a key selling point. Communication nodes deployed in hazardous areas must not only meet explosion-proof certification standards

but also fulfill functions related to secure industrial remote access and OT network perimeter protection. Moxa's industrial security routers prominently highlight capabilities such as NAT, VPN, and IPS, signaling that the market for explosion-proof and hazardous-area networking equipment is now incorporating 'secure communication' alongside 'intrinsic safety/explosion protection' as simultaneous procurement requirements. Moving forward, high-end products in this sector will increasingly emphasize a combined set of capabilities encompassing explosion-proof certification, industrial-grade reliability, cybersecurity, and remote operations and maintenance.

This report studies the global Explosion-proof Router production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Explosion-proof Router and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Explosion-proof Router that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Explosion-proof Router total production and demand, 2021-2032, (K Units)

Global Explosion-proof Router total production value, 2021-2032, (USD Million)

Global Explosion-proof Router production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Explosion-proof Router consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Explosion-proof Router domestic production, consumption, key domestic manufacturers and share

Global Explosion-proof Router production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Explosion-proof Router production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Explosion-proof Router production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Explosion-proof Router market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Solexy, Extronics, Centero, Pepperl+Fuchs, R. STAHL, ALLBORD, Aruba, JFE Engineering, Ex-Machinery, Extronics Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Explosion-proof Router market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Explosion-proof Router Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Explosion-proof Router Market, Segmentation by Type:

4G

5G

Global Explosion-proof Router Market, Segmentation by Technology:

Wi-Fi Explosion-proof Router

Cellular 4G / 5G Explosion-proof Router

Ethernet / VPN Industrial Explosion-proof Router

Multi-Protocol IIoT Gateway Router

Global Explosion-proof Router Market, Segmentation by Product Architecture:

Native Hazardous-Area Certified Router

Router In Ex-Proof Enclosure

Others

Global Explosion-proof Router Market, Segmentation by Application:

Petroleum and Mining Industry

Transportation Facilities

Industrial

Power Plant

Others

Companies Profiled:

Solexy

Extronics

Centero

Pepperl+Fuchs

R. STAHL

ALLBORD

Aruba

JFE Engineering

Ex-Machinery

Extronics Ltd

Pixavi

Moxa

Corning

Airseries Networks

Belden

Key Questions Answered:

1. How big is the global Explosion-proof Router market?
2. What is the demand of the global Explosion-proof Router market?
3. What is the year over year growth of the global Explosion-proof Router market?
4. What is the production and production value of the global Explosion-proof Router market?
5. Who are the key producers in the global Explosion-proof Router market?
6. What are the growth factors driving the market demand?

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