

Global RS232 Converter Market Growth 2026-2032

<https://marketpublishers.com/r/GCB830AAA603EN.html>

Date: July 2026

Pages: 132

Price: US\$ 3,660.00 (Single User License)

ID: GCB830AAA603EN

Abstracts

The global RS232 Converter market size is predicted to grow from US\$ 119 million in 2025 to US\$ 149 million in 2032; it is expected to grow at a CAGR of 3.4% from 2026 to 2032.

In 2024, the global production of RS232 converters reached 9.8048 million units, with an average selling price of \$10.5 per unit. The annual production capacity of a single RS232 converter production line is approximately 800,000 units, with a gross profit margin of approximately 23.5%. RS232 (Recommended Standard 232) is a serial communication protocol used to transmit one bit of data at a time. It is commonly found in older computers and industrial equipment. Modern devices typically use USB, Ethernet, or other protocols for faster and more reliable communication. RS232 converters bridge this gap by acquiring data in one format (such as USB) and converting it to RS232 format for compatibility with older devices. Upstream raw materials for RS232 converters include RS-232 transceiver chips, crystal oscillators, protection devices, etc. The midstream consists of RS232 converter manufacturers, while the downstream primarily serves industrial and medical industries.

In fields such as industrial automation, medical equipment, and embedded systems, RS232 is still used for equipment debugging and data transmission. For example, it's used for short-distance connections between PLCs and sensors, printers and host computers, and for serial port programming and debugging of devices. Many traditional devices (such as older computers, industrial controllers, and medical instruments) still rely on RS232 interfaces. Converters enable interoperability between new and old devices, reducing upgrade costs. New RS232 converter chips (such as the CBM3232 from Chipwise) support low-power design, making them suitable for battery-powered devices, while also offering higher transmission rates (such as 120kbps) and stronger anti-interference capabilities. Some converters integrate level conversion, protocol conversion, and isolation functions to meet the needs of complex application scenarios.

For example, RS232 to RS485 or USB to RS232 converters facilitate the connection of devices with different interfaces.

LP Information, Inc. (LPI) ' newest research report, the "RS232 Converter Industry Forecast" looks at past sales and reviews total world RS232 Converter sales in 2025, providing a comprehensive analysis by region and market sector of projected RS232 Converter sales for 2026 through 2032. With RS232 Converter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world RS232 Converter industry.

This Insight Report provides a comprehensive analysis of the global RS232 Converter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on RS232 Converter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global RS232 Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for RS232 Converter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global RS232 Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of RS232 Converter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

USB to RS232

RS232 to RS485

Others

Segmentation by Conversion Type:

Level Conversion

Protocol Conversion

Interface Conversion

Segmentation by Transmission Rate:

Low-Speed ??Converter

High-Speed ??Converter

Segmentation by Communication Mode:

Point-to-Point Converter

Multipoint Converter

Segmentation by Application:

Industrial Automation

Medical Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Patton Electronics

Omnitron Systems Technology

Lantronix

SerialComm

Moxa

Samyak Instrumentation

Scan Electronic Systems

Dynalog

Astronic Techno Systems

Aykay Electroics

Span Controls

Utek Technology

Ambetronics Engineers

BEL Engineering

ATEN

Sick

Digi International

Key Questions Addressed in this Report

What is the 10-year outlook for the global RS232 Converter market?

What factors are driving RS232 Converter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do RS232 Converter market opportunities vary by end market size?

How does RS232 Converter break out by Type, by Application?

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