

# Global Network Interface Board (NIB) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Network Interface Board (NIB) market size is expected to reach \$ 11254 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

A Network Interface Board (NIB) is a hardware module used in industrial control systems, computers, or embedded devices to enable network communication between the main controller (such as an industrial PC, PLC, or robot controller) and external networks or devices. It typically provides one or multiple communication interfaces such as Ethernet, fieldbus (e.g., EtherCAT, PROFINET, CAN), or other industrial communication protocols, allowing high-speed and reliable data exchange. In 2025, global Network Interface Board production reached approximately 37.35 M pcs, with an average global market price of around US\$ 185 per pc. Annual production capacity is 41 M pcs. Gross Profit Margin: 38%. The Network Interface Board (NIB) industry chain is structured across three main layers: upstream semiconductor and electronic component suppliers, midstream module and board manufacturers, and downstream system integrators. Upstream includes Ethernet PHY chips, communication controllers, PCB substrates, and industrial connectors, primarily supplied by companies like Intel, Broadcom, and various PCB manufacturers. Midstream consists of industrial automation and embedded hardware companies that design and produce network interface boards, protocol modules, and industrial communication cards. Downstream applications include PLC systems, industrial robots, edge computing devices, and smart factory equipment, where NIBs serve as the key communication bridge enabling real-time data exchange and system integration. Network Interface Board is becoming a foundational component of intelligent industrial systems rather than a standalone hardware product. Its value is increasingly driven by real-time communication performance, protocol compatibility, and system-level integration rather than hardware

cost alone. As automation, robotics, and industrial IoT continue to expand, demand is shifting toward higher-speed, multi-protocol, and more embedded network interfaces, making this market moderately growing but highly tied to ecosystem standards.

This report studies the global Network Interface Board (NIB) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Network Interface Board (NIB) 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 Network Interface Board (NIB) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Network Interface Board (NIB) total production and demand, 2021-2032, (K Pcs)

Global Network Interface Board (NIB) total production value, 2021-2032, (USD Million)

Global Network Interface Board (NIB) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Network Interface Board (NIB) consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Network Interface Board (NIB) domestic production, consumption, key domestic manufacturers and share

Global Network Interface Board (NIB) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Network Interface Board (NIB) production by Communication Protocol, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Network Interface Board (NIB) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Network Interface Board (NIB) 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 Siemens, Schneider Electric, Rockwell Automation, Phoenix Contact, Belden, Hirschmann, Moxa, Advantech, Beckhoff Automation, Hilscher, 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 Network Interface Board (NIB) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Communication Protocol, 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 Network Interface Board (NIB) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Network Interface Board (NIB) Market, Segmentation by Communication Protocol:

Ethernet Interface Board

Real-Time Industrial Ethernet Board

Fieldbus Interface Board

Serial Communication Interface Board

Wireless Network Interface Board

Global Network Interface Board (NIB) Market, Segmentation by Real-Time Performance Level:

Non-Real-Time Board

Soft Real-Time Board

Hard Real-Time Board

Global Network Interface Board (NIB) Market, Segmentation by Data Rate:

Low-Speed Network Board:

Medium-Speed Network Board: 1 Mbps – 100 Mbps

High-Speed Network Board: 100 Mbps – 10 Gbps+

Global Network Interface Board (NIB) Market, Segmentation by Application:

Industrial Automation & Manufacturing

Robotics & Intelligent Equipment

Transportation & Automotive

Energy & Power

Others

Companies Profiled:

Siemens

Schneider Electric

Rockwell Automation

Phoenix Contact

Belden

Hirschmann

Moxa

Advantech

Beckhoff Automation

Hilscher

HMS Networks

Omron

Mitsubishi Electric

Yokogawa Electric

Westermo

Inovance

Hollysys

Estun

Huazhong CNC

Decowell

Key Questions Answered:

1. How big is the global Network Interface Board(NIB) market?
2. What is the demand of the global Network Interface Board(NIB) market?
3. What is the year over year growth of the global Network Interface Board(NIB) market?
4. What is the production and production value of the global Network Interface Board(NIB) market?
5. Who are the key producers in the global Network Interface Board(NIB) market?
6. What are the growth factors driving the market demand?

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