

# Industrial Ethernet Switch Selection Guide

## HARDWARE SELECTION GUIDANCE WITH SPECIFIC EVALUATION CRITERIA

### MAKE INFORMED, FACT-BASED TECHNOLOGY SELECTIONS

No longer just a network accessory, the industrial Ethernet switch has evolved from its origins as a simple factory data acquisition device. Today, these switches serve a continually broadening spectrum of applications and end user industries.

This evolution includes industrial Ethernet cementing its position as a key platform in both automation and infrastructure architectures, including the core architectures embodied in the Industrial Internet of Things (IIoT), Industrie 4.0, and IT/OT convergence.

Escalating use in these and other segments continues to drive new product configurations, new supplier entries, and overall expansion beyond the traditional industrial base.

Potential switch buyers need a sound roadmap to guide them through the maze of new configuration options. ARC's *Industrial Ethernet Switch Selection Guide* is designed to help organizations make informed choices when selecting industrial Ethernet switches.

Extracted from ARC's most recent industrial Ethernet switch market update, and drawing on our years of industrial Ethernet switch market coverage, this guide will reduce your RFP development time and provide a sound foundation for expediting your product and supplier selection process.

For more information, please visit us at [www.arcweb.com/technology-evaluation-and-selection](http://www.arcweb.com/technology-evaluation-and-selection)

### STRATEGIC ISSUES

The profile definition for an industrial Ethernet switch has the potential to evolve drastically over the coming years. This selection guide highlights key issues, such as:

- How best to evaluate both hardware and suppliers for support of your application and industry requirements?
- What tools and standards are available to address industrial security concerns?
- How will emergence of the Industrial Internet of Things, Industrie 4.0, and IT/OT convergence impact selection choices?
- Who are the leading suppliers and innovators by industry and application?
- Which suppliers have been acquired by who, and for what purpose?

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Asia  
Latin America  
Market Shares by Industry  
Aerospace & Defense  
Automotive  
Building Automation  
Chemical  
Electronics & Electrical  
Electric Power Generation - Fossil

Electric Power Generation - Renewable  
Electric Power Transmission & Distribution  
Food & Beverage  
Intelligent Transportation Systems  
Machinery Manufacturing  
Mining & Metals  
Oil & Gas  
Pulp & Paper  
Pharmaceutical & Biotech

Semiconductors  
Water & Wastewater

#### SUPPLIER PROFILES

Profiles for the major industrial Ethernet switch suppliers serving this market are included. Each profile concisely reviews the company's business, products, and services as it applies to industrial Ethernet switches.

#### Defining Characteristics of Industrial Ethernet Switches

DIN rail, rack mount, panel mount, embedded

Extended operating temperature range

Designed for passive cooling

Industrially rugged design, especially the case

Industrial connectors in addition to RJ45

Higher International Protection (IP) Rating

Redundant Components (Power Supplies, etc.)

Marketed via automation equipment channels

Support for industrial network protocols

Deployed at the network edge

Protection from Electromagnetic Interference (EMI)

