

EtherNet/IP Network Interface Cards >

EtherNet/IP Network Interface Cards (NICs) streamline factory automation by reducing hardware and cabling requirements while optimizing network performance and efficiency. They deliver reliable real-time communication, versatile configuration and diagnostic capabilities, robust security and seamless integration for complex EtherNet/IP networks.



ADVANTAGES AND FEATURES

Helps reduce network downtime

A robust design featuring built-in dual-port Ethernet switches and a DLR supervisor mode enables rapid fault detection and recovery. This safeguards critical operations and permits flexible deployment in star, line or ring topologies.

Supports large-scale industrial networks

Supporting up to 60 connections per channel (120 in single-channel mode) and handling up to 12,000 packets per second, the NIC reduces network congestion and supports easy expansion.

Simplifies network architecture

The NIC combines I/O scanner and adapter functions into a single card, reducing the need for additional hardware and leading to lower costs and easier maintenance.

| | |
|---------------------------|--|
| Network Protocol | EtherNet/IP |
| Interface | PCIe half-length; half- or full-height bracket |
| Certifications | RoHS, REACH, cUL, CE, KCC |
| ODVA Conformance | Yes |
| Functionality | Scanner/adapter |
| Device Level Ring Support | DLR supervisor, Beacon DLR node |
| Operating Temperatures | 0 to +60°C |

Streamlines configuration, diagnostic and maintenance tasks

A product configuration tool (PCT) and address conflict detection (ACD) provide user-friendly troubleshooting and configuration capabilities.

Offers system design flexibility

The low-profile, half-length PCI Express (PCIe) interface ensures compatibility with a wide range of enclosures, saving valuable panel or rack space.

MARKETS AND APPLICATIONS

Industrial Automation

- Agricultural systems
- Automotive production lines
- CNC machine manufacturers
- Food and beverage lines
- Machine builders
- Material handling solution manufacturers
- Material handling systems
- Mining equipment
- Pulp and paper manufacturing equipment
- Robot cell control systems
- Semiconductors
- Substation control devices
- Water and wastewater treatment plants



Material Handling Systems



Food and Beverage Lines



Robot Cell Control Systems

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SPECIFICATIONS

Reference Information

Packaging: Box
Designed in: Millimeters
RoHS: Yes
REACH: Yes
Halogen Free: Yes
ODVA Conformance: Yes
PCIe Compliance: PCIe Gen 1.0a
Certifications: cUL, CE, KCC

Mechanical

Interface: PCIe half-length, half- or full-height bracket
Supported PCIe Slots: x1, x4, x8, x16

Physical

Humidity: 5 to 95% non-condensing
Operating Temperatures: 0 to +60°C
Storage Temperatures: -25 to +85°C

Features

Configurations: Single and dual channel
Functionality: Scanner/adaptor
Cyclic Connections (max.):
60 per channel in two-channel mode
120 per channel in single-channel mode
Packets per Second: Up to 12,000
I/O Data Size (max.): 16kB
Device Level Ring Support: DLR supervisor,
Beacon DLR node
Supported Operating Systems: Windows, Linux
Supplied Software: Hardware drivers, configuration
and diagnostic tools, development libraries,
interface source code (CAPIs)

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