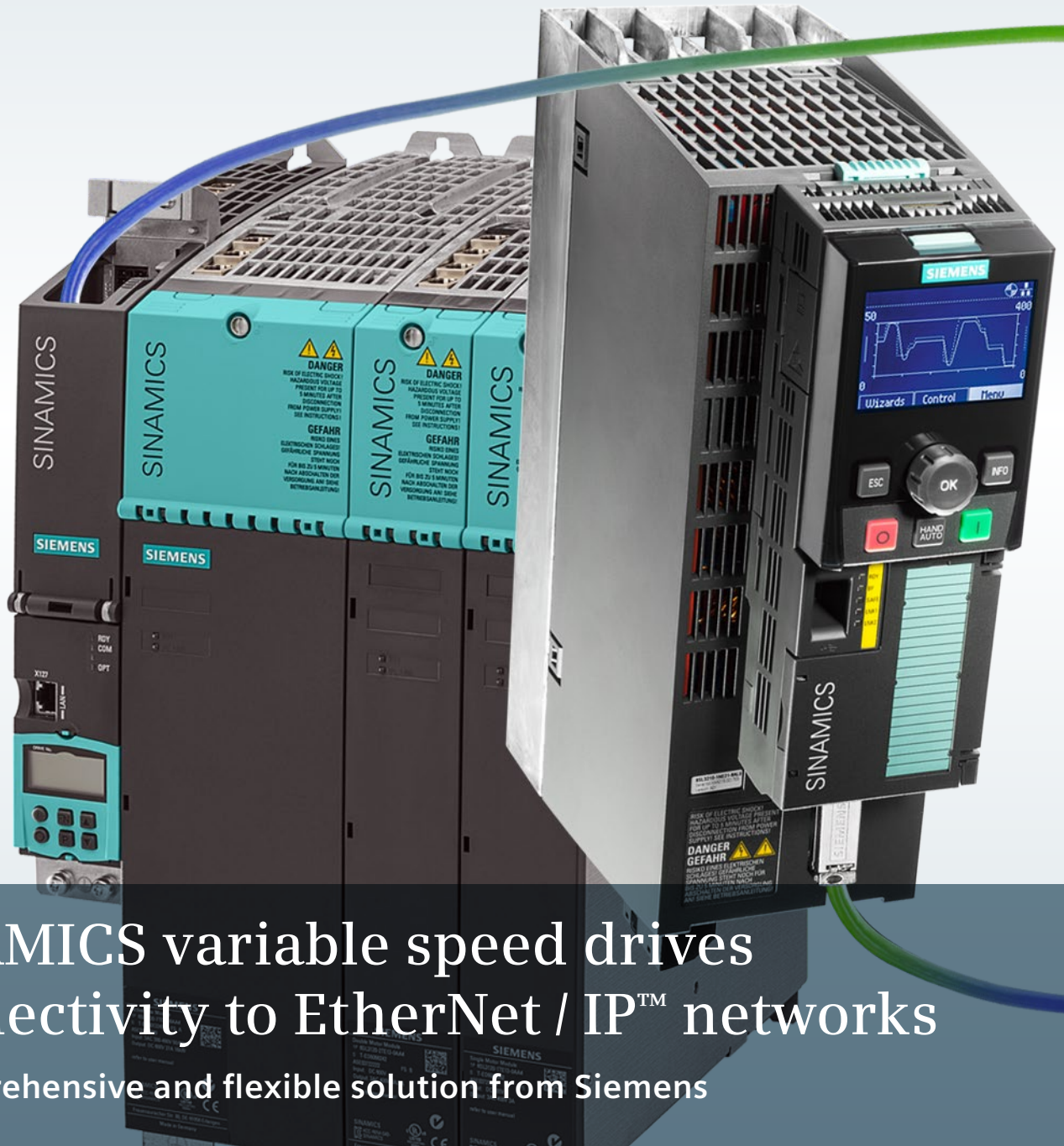


SIEMENS



# SINAMICS variable speed drives connectivity to EtherNet / IP™ networks

A comprehensive and flexible solution from Siemens

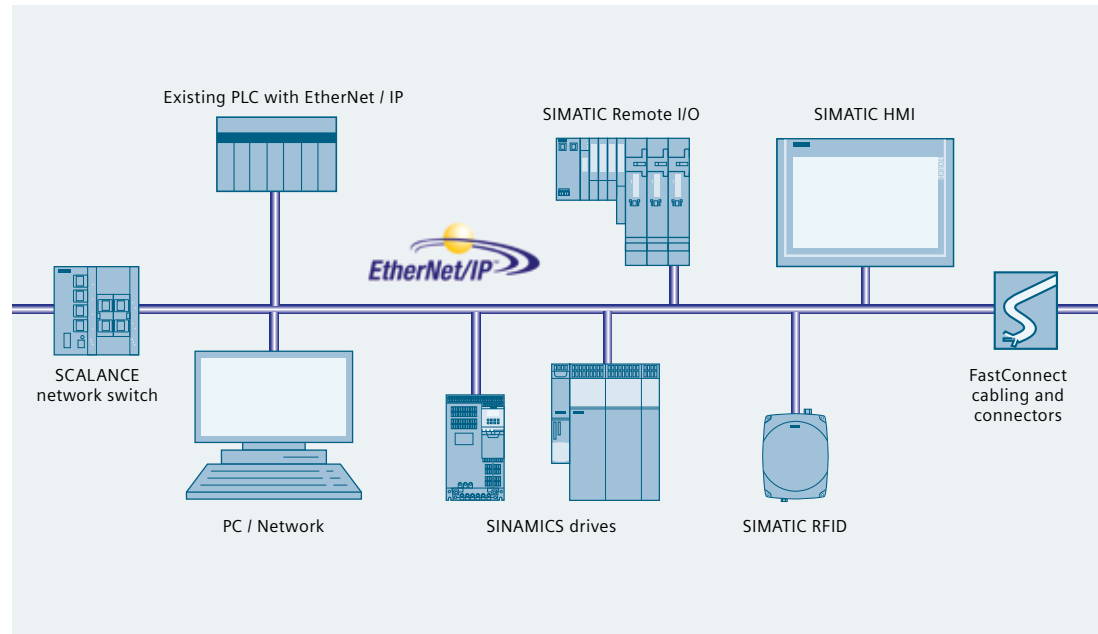
[usa.siemens.com/eip-drives](http://usa.siemens.com/eip-drives)

Answers for industry.

# SINAMICS drives

One family, one source, all applications

Backed by “Best-in-Class” features, benefits and support, Siemens solutions continue to meet your industrial communication needs.



Siemens has a comprehensive line of products with the flexibility to integrate not only into PROFINET networks, but EtherNet / IP networks, as well. From distributed I/O, drives, HMI hardware and software —to RFID, networking, switches and even cabling, Siemens can supply an entire complement of system components.

## Improve performance with SINAMICS variable speed drives

Just as using performance components in your automobile or computer can result in tangible performance improvements, choosing innovative drive products can bring measurable advancements to your industrial productivity.

SINAMICS drives from Siemens achieve an unparalleled combination of advanced electrical design, operational intelligence and robust physical construction — the brain, the brawn and the flexibility — to execute every task at its highest level of efficiency.

- Common set of engineering tools and a full range of communications options
- High flexibility — beyond typical limits
- Single supplier of motor-drive integration
- Emphasis on energy efficiency and cost-savings
- Leader in safety drives technology

# Easy integration

We did the work for you

Pre-engineered Add-On Instructions (AOIs) and standard drive telegrams make for quick and simple PLC / drive configuration.

As an intelligent player on your network team, integrating SINAMICS drives into your existing automation is quick and easy. When combined with other Siemens components, you will see another side of SINAMICS drives — a harmony that allows your entire system to achieve new levels of performance. Every SINAMICS drive is based upon the same hardware and software platform, allowing for maximum flexibility and transferable knowledge across the total range.

## Easy parameter selection

SINAMICS drives offer the unique advantage of allowing selection of either a PROFINET or EtherNet / IP stack with just a parameter selection.

## Building to higher levels of productivity

Over time, you can replace your existing components with just one Siemens component, a combination of Siemens components — or the entire system. You can quickly and easily meet your drive and automation challenges today and well into the future

Take your performance to an entirely new level — with Totally Integrated Automation from Siemens.

# SINAMICS variable speed drives

## Our offering with EtherNet / IP capability

SINAMICS G110M		usa.siemens.com/sinamics-g110m		
Motor-integrated vector AC drive				
Ratings	0.5–5 hp, 380–480V			
Installation format	Integrated on SIMOGEAR gear motors			
Interface for EtherNet / IP™	Integrated into the drive			

SINAMICS G120		usa.siemens.com/sinamics-g120		
Flexible modular vector drive offers high levels of integrated safety, and energy-savings				
Ratings	0.5–400 hp, 230–690V			
Installation format	Component			
Interface for EtherNet / IP™	CU230P-2 PN			CU240E-2 PN
	CU240B-2 PN	CU250S-2 PN		

SINAMICS G120C		usa.siemens.com/sinamics-g120c		
Extremely compact, economic, space-saving and easy-to-operate vector AC drive				
Ratings	0.75–25 hp, 380–480V			
Installation format	Component			
Interface for EtherNet / IP™	6SL3210-1KExx-xxF1			

SINAMICS G120D		usa.siemens.com/sinamics-g120d		
Closed-loop vector distributed drive for on-machine mounting				
Ratings	1–10 hp, 380–480V			
Installation format	On-machine			
Interface for EtherNet / IP™	CU240D-2 PN			

SINAMICS G120E		usa.siemens.com/sinamics-g120e		
Air-cooled, variable speed cabinet drive based upon SINAMICS G120 components				
Ratings	1–200 hp, 380–480V			
Installation format	Cabinet			
Interface for EtherNet / IP™	CU230P-2 PN			CU240E-2 PN
	CU240B-2 PN	CU250S-2 PN		

**SINAMICS G130**[usa.siemens.com/sinamics-g130](http://usa.siemens.com/sinamics-g130)

Standard high-powered drive for integration into enclosures

<b>Ratings</b>	150–800 hp, 380–690V
<b>Installation format</b>	Component
<b>Interface for EtherNet / IP™</b>	CU320-2 + CBE20*

**SINAMICS G150**[usa.siemens.com/sinamics-g150](http://usa.siemens.com/sinamics-g150)

Enclosed, air- or water-cooled variable speed drive

<b>Ratings</b>	150–800 hp, 380–600V
<b>Installation format</b>	Cabinet
<b>Interface for EtherNet / IP™</b>	CU320-2 + CBE20*

**SINAMICS S120**[usa.siemens.com/sinamics-s120](http://usa.siemens.com/sinamics-s120) | [usa.siemens.com/sinamics-s120cm](http://usa.siemens.com/sinamics-s120cm)

Modular, flexible high-performance drive system for vector, servo, v/hz, single- or multi-axis applications

<b>Ratings</b>	0.25–1,250 hp, 230–690V
<b>Installation format</b>	Component, Chassis, Cabinet
<b>Interface for EtherNet / IP™</b>	CU320-2 + CBE20*

**SINAMICS S150**[usa.siemens.com/sinamics-s150](http://usa.siemens.com/sinamics-s150)

Enclosed air-cooled AC / AC variable speed drive ideal for high performance applications that require power regeneration

<b>Ratings</b>	150–1,250 hp, 380–690V
<b>Installation format</b>	Cabinet
<b>Interface for EtherNet / IP™</b>	CU320-2 + CBE20*

**SINAMICS DC Master 6RA80**[usa.siemens.com/sinamics-dcm](http://usa.siemens.com/sinamics-dcm)

DC drives combining open- and closed-loop control and power section in one device

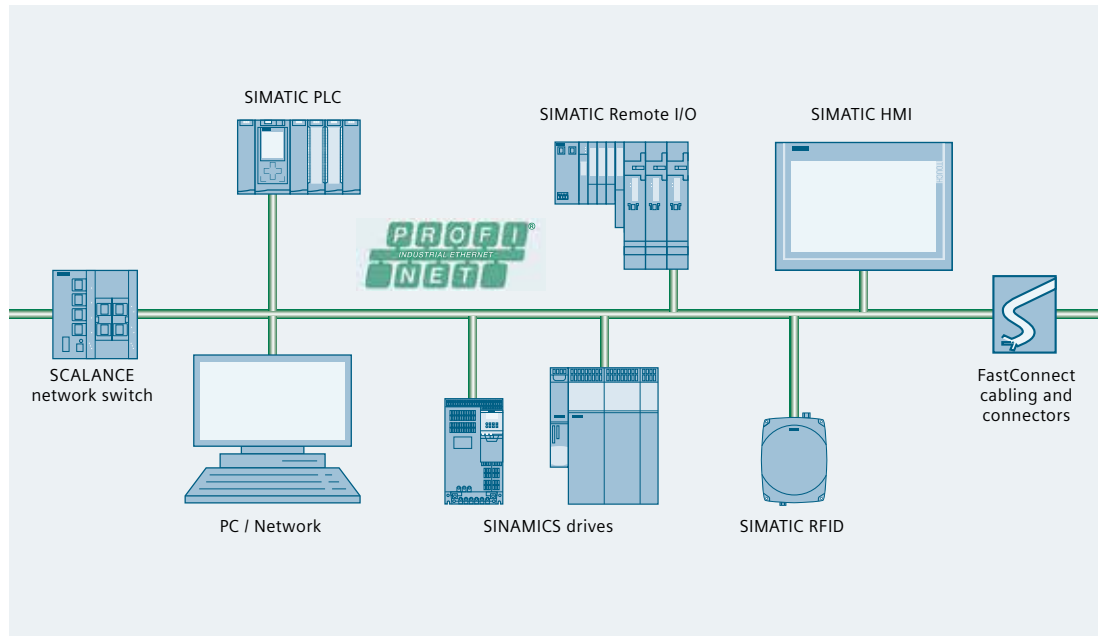
<b>Ratings</b>	5–24,000 hp, 85–950V
<b>Installation format</b>	Component, Chassis, Cabinet
<b>Interface for EtherNet / IP™</b>	Advanced CUD + CBE20*



\* Communication Board Ethernet (CBE20) features selectable Industrial Ethernet stacks. A single parameter selection allows the CBE20 board to operate with PROFINET, EtherNet / IP or various other protocols making your Industrial Ethernet connectivity selection only a click away.

# Even further network flexibility

PROFINET is only a click away when you need it



The unique advantage of SINAMICS drives is the built-in capability to connect to the two leading industrial ethernet networks with simple parameter selection.

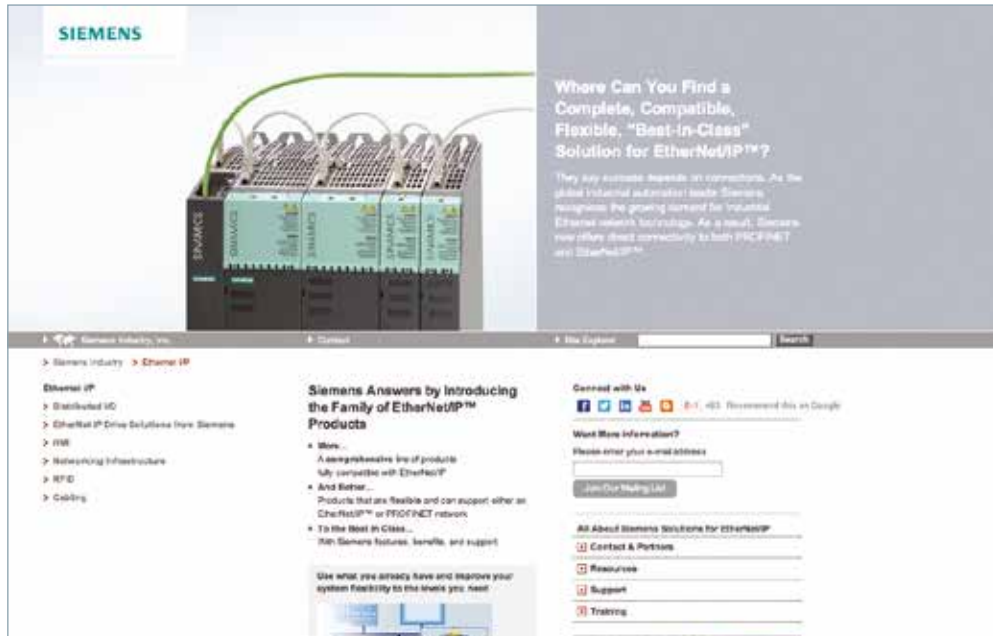
Recognizing that machine builders often have the requirement to integrate their machines into different variants of industrial ethernet, SINAMICS drives offer you this flexibility. As an additional benefit, when paired with a Siemens PLC and PROFIBUS, more options become available, such as integrated safety, motion control and a host of other harmonized functions.

## Your advantages of PROFIBUS at a glance

Flexibility	Efficiency	Performance
Tailor-made plant concepts	Optimal use of resources	Increased productivity
<ul style="list-style-type: none"> <li>Industrial wireless LAN</li> <li>Safety</li> <li>Flexible topologies</li> <li>Open standard</li> <li>Web tools</li> <li>Expandability</li> </ul>	<ul style="list-style-type: none"> <li>One cable for all purposes</li> <li>Device / network diagnostics</li> <li>Energy efficiency</li> <li>Easy cabling</li> <li>Fast device replacement</li> <li>Ruggedness / stability</li> </ul>	<ul style="list-style-type: none"> <li>Speed</li> <li>High precision</li> <li>Large quantity structures</li> <li>High transmission rate</li> <li>Media redundancy</li> <li>Fast start-up</li> </ul>

# Looking for more information?

Here's how to get started



Take advantage of progressive developments in Industrial Ethernet technology and open connectivity.

With direct network connectivity to EtherNet / IP™, PROFINET, and standard Ethernet TCP / IP, SINAMICS drives fit comfortably within your plant's network — providing you with maximum productivity, flexibility and efficiency.

[usa.siemens.com/eip](http://usa.siemens.com/eip)

Now that you've determined which SINAMICS drives best fit your needs, go online to learn more about the many EtherNet / IP advantages you'll benefit from by using Siemens drives.

[usa.siemens.com/eip-drives](http://usa.siemens.com/eip-drives)

Find more information including download links to EtherNet / IP-specific content:

- EtherNet / IP Add-On Instructions (AOI)
- Engineering software
- Application manuals
- Links to step-by-step videos
- Tutorials
- EDS files
- Support information

[usa.siemens.com/distributorlocator](http://usa.siemens.com/distributorlocator)

Get in touch with your local Siemens solution partner



There's more to it

[usa.siemens.com/sinamics](http://usa.siemens.com/sinamics)

Everything about our  
drive family can be  
found online.

**SINAMICS —**  
one family, one source,  
all applications



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