

DESIGN

These Tools & Documents Help You Design Your EtherNet/IP System

General Resources

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com
 EtherNet/IP Capacity Tool
ab.com/go/iatools
 Integrated Architecture Builder
rockwellautomation.com/en/e-tools

Intermediate Resources

EtherNet/IP Book of Knowledge (Knowledgebase Answer ID 57174)
rockwellautomation.com/support
 IA Recommended Literature Reference Manual (IASIMP-RM002-EN-P)
ab.com/go/iatools

Advanced Resources

Converged Plantwide Ethernet (CPWE) Design & Implementation Guide (ENET-TD001-EN-P)
ab.com/go/iatools
 RSNetwork for EtherNet/IP Offline (9357ENETL3)
rockwellautomation.com/support

Controllers

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com
 EtherNet/IP Capacity Tool
ab.com/go/iatools

Intermediate Resources

EtherNet/IP Modules in Logix5000 Control Systems (ENET-UM001-EN-P)
literature.rockwellautomation.com

Advanced Resources

Logix5000 Controllers Design Considerations Reference Manual (1756-RM094F-EN-P)
literature.rockwellautomation.com

Motion

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com
 CIP Motion Popular Configuration Drawing With Notes (IASIMP-QR019B-EN-P)
ab.com/go/iatools
 EtherNet/IP Capacity Tool
ab.com/go/iatools

Intermediate Resources

CIP Motion Configuration and Startup User Manual (MOTION-UM003B-EN-P)
literature.rockwellautomation.com

Advanced Resources

Drives and Motion Accelerator Toolkit (IASIMP-SP017A-EN-C)
ab.com/go/iatools

Safety

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com
 EtherNet/IP Capacity Tool
ab.com/go/iatools

Intermediate Resources

Safety Accelerator for GuardLogix Systems Toolkit (SAFETY-CL002)
ab.com/go/iatools

Advanced Resources

Safety Accelerator for GuardLogix Systems Toolkit/GuardLogix Tools (SAFETY-CL002)
ab.com/go/iatools

Stratix Switch

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com
 Stratix Switch Reference Chart (ENET-QR001D-EN-E)
literature.rockwellautomation.com

Intermediate Resources

EtherNet/IP Embedded Switch Technology Application Guide (ENET-AP005-EN-P)
literature.rockwellautomation.com

Advanced Resources

Stratix Managed Switches within the Integrated Architecture Whitepaper (ENET-WP008A-EN-E)
literature.rockwellautomation.com

Infrastructure/Cabling

Basic Resources

EtherNet/IP Physical Media Catalog Pages (1585-CA500-EN-P)
literature.rockwellautomation.com

Intermediate Resources

Guidance for Selecting Cables for EtherNet/IP Networks (ENET-WP007-EN-P)
literature.rockwellautomation.com

Advanced Resources

EtherNet/IP Benefits of Industrial Connectivity in Industrial Applications (1585-WP001-EN-P)
literature.rockwellautomation.com

WAN / Enterprise

HMI

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com

Intermediate Resources

PanelView Plus 6 Terminals User Manual (2711P-UM006A-EN-P)
literature.rockwellautomation.com

Advanced Resources

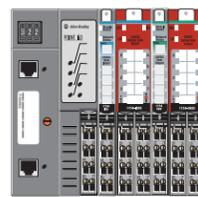
Logix/PanelView Plus Calculator Tool (ID MMS_054334)
rockwellautomation.com/support



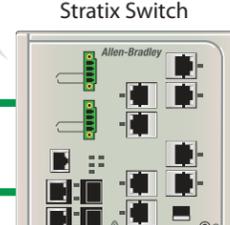
Motion



Controllers



Safety



Stratix Switch

Distributed I/O

Basic Resources

EtherNet/IP Design Guide (ENET-RM002A-EN-P)
literature.rockwellautomation.com
 EtherNet/IP Capacity Tool
ab.com/go/iatools

Intermediate Resources

EtherNet/IP Modules in Logix5000 Control Systems (ENET-UM001-EN-P)
literature.rockwellautomation.com

Advanced Resources

RSNetWorx for EtherNet/IP Offline (9357ENETL3)
rockwellautomation.com/support



Distributed I/O



Standard Drives

Standard Drives

Basic Resources

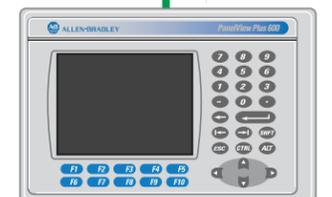
EtherNet/IP Design Guide (ENET-RM002A-EN-P)
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 EtherNet/IP Capacity Tool
ab.com/go/iatools

Intermediate Resources

EtherNet/IP Modules in Logix5000 Control Systems (ENET-UM001-EN-P)
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Advanced Resources

RSNetWorx for EtherNet/IP Offline (9357ENETL3)
rockwellautomation.com/support



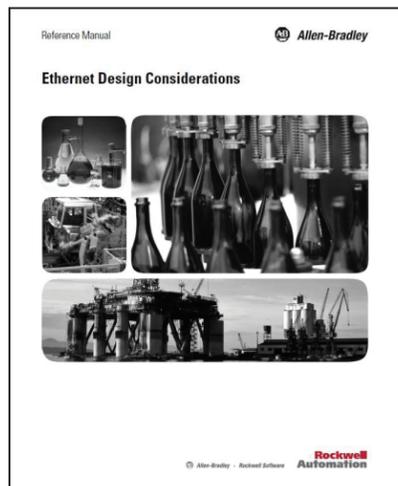
HMI

These Tools & Documents Help You Design Your EtherNet/IP System

EtherNet/IP Design Considerations

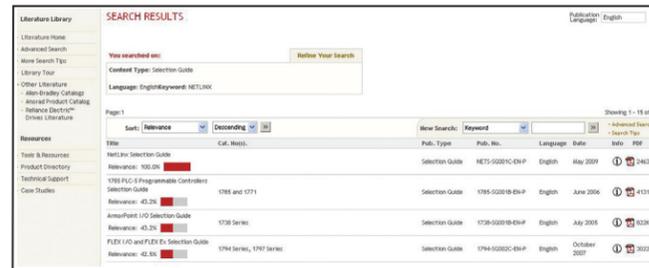
What It Is:

Your starting point for designing your EtherNet/IP system. This document walks you through the process of understanding and selecting the EtherNet/IP topology, infrastructure, and products that you need.



Where To Get It:

Go to the Literature Library Website . . .



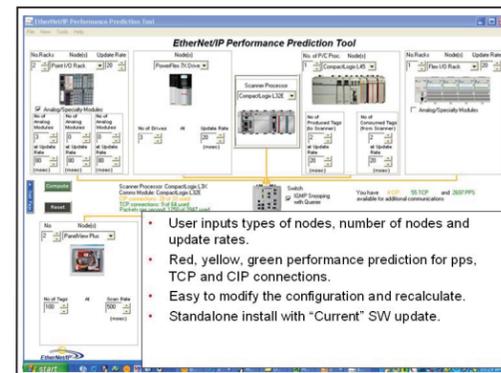
literature.rockwellautomation.com



EtherNet/IP Capacity Tool

What It Is:

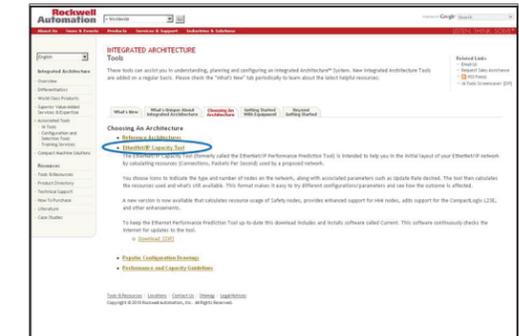
This tool helps you in the initial layout of your EtherNet/IP network by calculating resources (Connections, Packets Per Second) used by your proposed network.



- User inputs types of nodes, number of nodes and update rates.
- Red, yellow, green performance prediction for pps, TCP and CIP connections.
- Easy to modify the configuration and recalculate.
- Standalone install with "Current" SW update.

Where To Get It:

Go to the Integrated Architecture Tools Website. . .

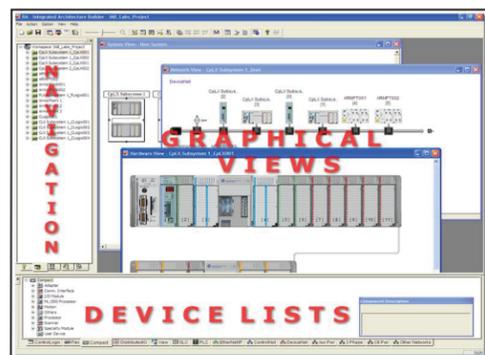


ab.com/go/iatools

Integrated Architecture Builder

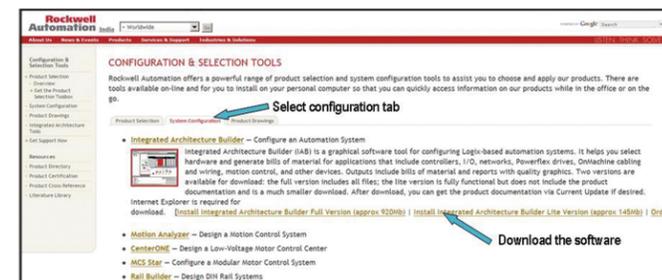
What It Is:

Integrated Architecture Builder helps you configure Logix based automation systems, including EtherNet/IP wizards to validate your network and select physical media.



Where To Get It:

Go to the Configuration and Selection Tools Website . . .



rockwellautomation.com/en/e-tools

Integrated Architecture Bookshelf

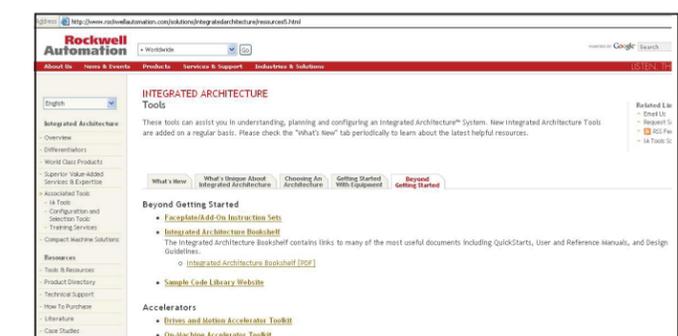
What It Is:

The Integrated Architecture Bookshelf is a single point reference document with links to the most useful EtherNet/IP documents such as QuickStarts, User and Reference Manuals, and Design Guidelines.



Where To Get It:

Go to the Integrated Architecture Tools Website. . .



ab.com/go/iatools

COMMISSIONING

These Tools & Documents Help You Commission Your EtherNet/IP System

General Resources

Basic Resources

RSLinx Software (9355WABENE)
rockwellautomation.com/support

Intermediate Resources

Intergrated Architecture
Recommended Literature
Reference Manual
(IASIMP-RM001-EN-P)
ab.com/go/iatools

Advanced Resources

ME Faceplate for EtherNet/IP
Diagnostics V2 (ID MMS_046643)
samplecode.rockwellautomation.com

Motion

Basic Resources

RSLinx 5000 Software
(9324RLD700ENE)
rockwellautomation.com/support

Intermediate Resources

CIP Motion Configuration and
Startup User Manual
(MOTION-UM003B-EN-P)
literature.rockwellautomation.com

Advanced Resources

Drives and Motion Accelerator Toolkit
(IASIMP-SP017A-EN-C)
ab.com/go/iatools

Safety

Basic Resources

RSLinx 5000 Software
(9324RLD700ENE)
rockwellautomation.com/support

Intermediate Resources

GuardLogix Controllers User Manual
(1756-UM020F-EN-P)
literature.rockwellautomation.com

Advanced Resources

Safety Accelerator for GuardLogix
Systems Toolkit (SAFETY-CL002)
ab.com/go/iatools

Stratix Switch

Basic Resources

Stratix 6000/8000 Web Page
(Included in Products)
Type Module IP Address in Browser
Stratix 8000 Express Set-Up
and Smartports
(Included in Products)
Type Module IP Address in Browser

Intermediate Resources

Stratix 8000 and 8300 Ethernet
Managed Switches User Manual
(1783-UM003E-EN-P)
literature.rockwellautomation.com
Stratix 6000 Ethernet Managed
Switch User Manual
(1783-UM001B-EN-P)
literature.rockwellautomation.com

Advanced Resources

ME Faceplate/AOI for Stratix 8000
(ID MMS_048469)
samplecode.rockwellautomation.com
Stratix 8000 Command Line Interface
(Included in Products)
Access through Console Port

Infrastructure/Cabling

Basic Resources

RSLinx Software (9355WABENE)
rockwellautomation.com/support

Intermediate Resources

Ping (Start-Run-"ping <IP address>")

Advanced Resources

ME Faceplate for EtherNet/IP
Diagnostics V2 (ID MMS_046643)
samplecode.rockwellautomation.com

WAN / Enterprise

HMI

Basic Resources

FactoryTalk View Studio Machine
Edition Software (9701VWSTMENE)
rockwellautomation.com/support

Intermediate Resources

PanelView Plus 6 Terminals User
Manual (2711P-UM006A-EN-P)
literature.rockwellautomation.com

Advanced Resources

ME Faceplate for EtherNet/IP
Diagnostics V2 (MMS_046643)
samplecode.rockwellautomation.com

Controllers

Basic Resources

RSLinx 5000 Software
(9324RLD700ENE)
rockwellautomation.com/support

Intermediate Resources

EtherNet/IP Modules in Logix5000
Control Systems (ENET-UM001-EN-P)
literature.rockwellautomation.com

Advanced Resources

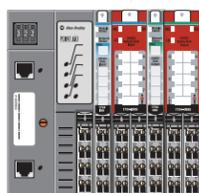
ME Faceplates for Logix Processors
(ID MMS_053453)
samplecode.rockwellautomation.com



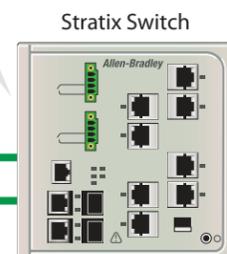
Motion



Controllers



Safety



Stratix Switch

Distributed I/O

Basic Resources

RSLinx 5000 Software
(9324RLD700ENE)
rockwellautomation.com/support

Intermediate Resources

EtherNet/IP Modules in Logix5000
Control Systems (ENET-UM001-EN-P)
literature.rockwellautomation.com

Advanced Resources

ME Faceplates for 1734 Digital and
Analog I/O (ID MMS_053453)
samplecode.rockwellautomation.com



Distributed I/O



Standard Drives

Standard Drives

Basic Resources

RSLinx 5000 Software
(9324RLD700ENE)
rockwellautomation.com/support

Intermediate Resources

EtherNet/IP Modules in Logix5000
Control Systems (ENET-UM001-EN-P)
literature.rockwellautomation.com

Advanced Resources

ME Faceplates/AOIs for PowerFlex
Drives V16/17/18 (ID MMS_044992)
samplecode.rockwellautomation.com



HMI

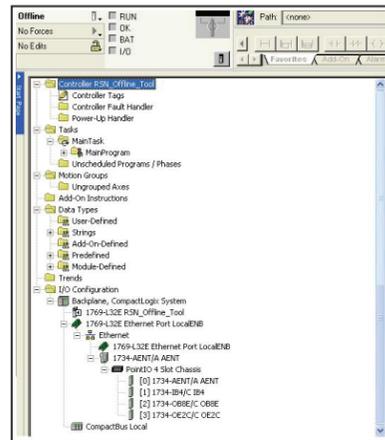
EtherNet/IP

These Tools & Documents Help You Commission Your EtherNet/IP System

RSLogix5000

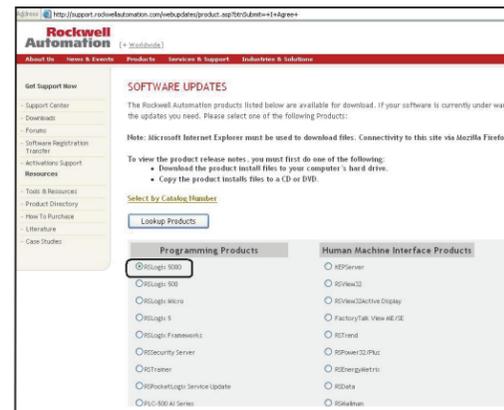
What It Is:

A single software platform that allows you to configure and commission all of your EtherNet/IP devices. No other network configuration software is required.



Where To Get It:

Available for download from the Rockwell Automation Technical Support site . . .

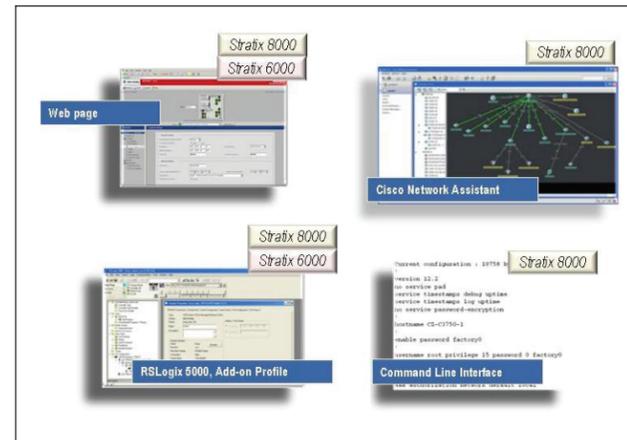


rockwellautomation.com/support

Stratix Configuration Tools

What It Is:

A set of common configuration tools for the entire family of Stratix switches.



Where To Get It:

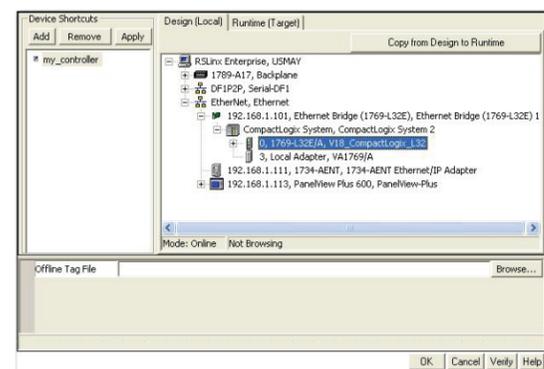
- Stratix 6000/8000 Web Page (Included in Products)
- Stratix 6000/8000 RSLogix5000 Add On Profiles (Included in RSLogix5000 software)
- Cisco Network Assistant (free download from Cisco)
- Stratix 8000 Command Line Interface (Included in Product)



FactoryTalk View Studio

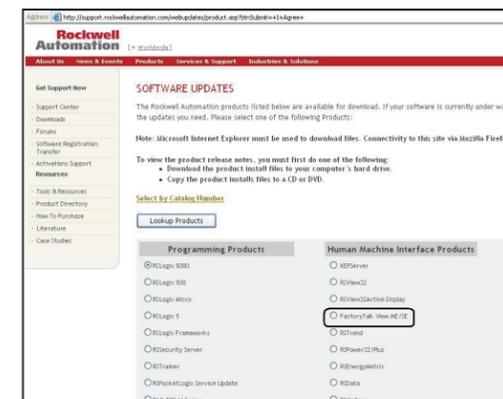
What It Is:

A single software platform for all your FTVIEW SE and ME Operator Interfaces that allows you to link to all your EtherNet/IP processors and access tag data.



Where To Get It:

Available for download from the Rockwell Automation Technical Support site . . .



rockwellautomation.com/support

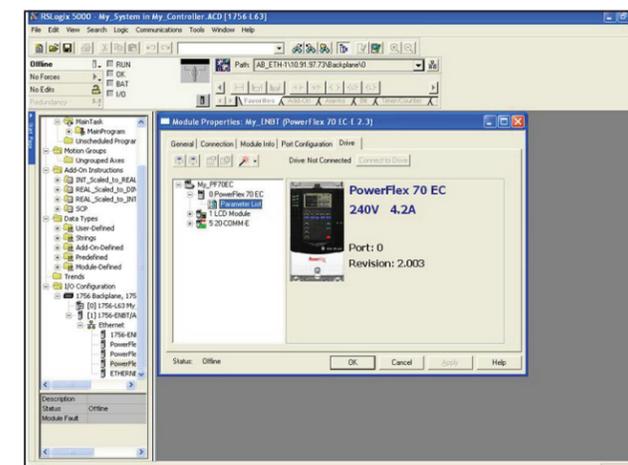
PowerFlex/Kinetix Premier Integration

What It Is:

Integrated Drive Profiles in your RSLogix5000 software allows you to use one software tool to configure the entire Logix/drive system.

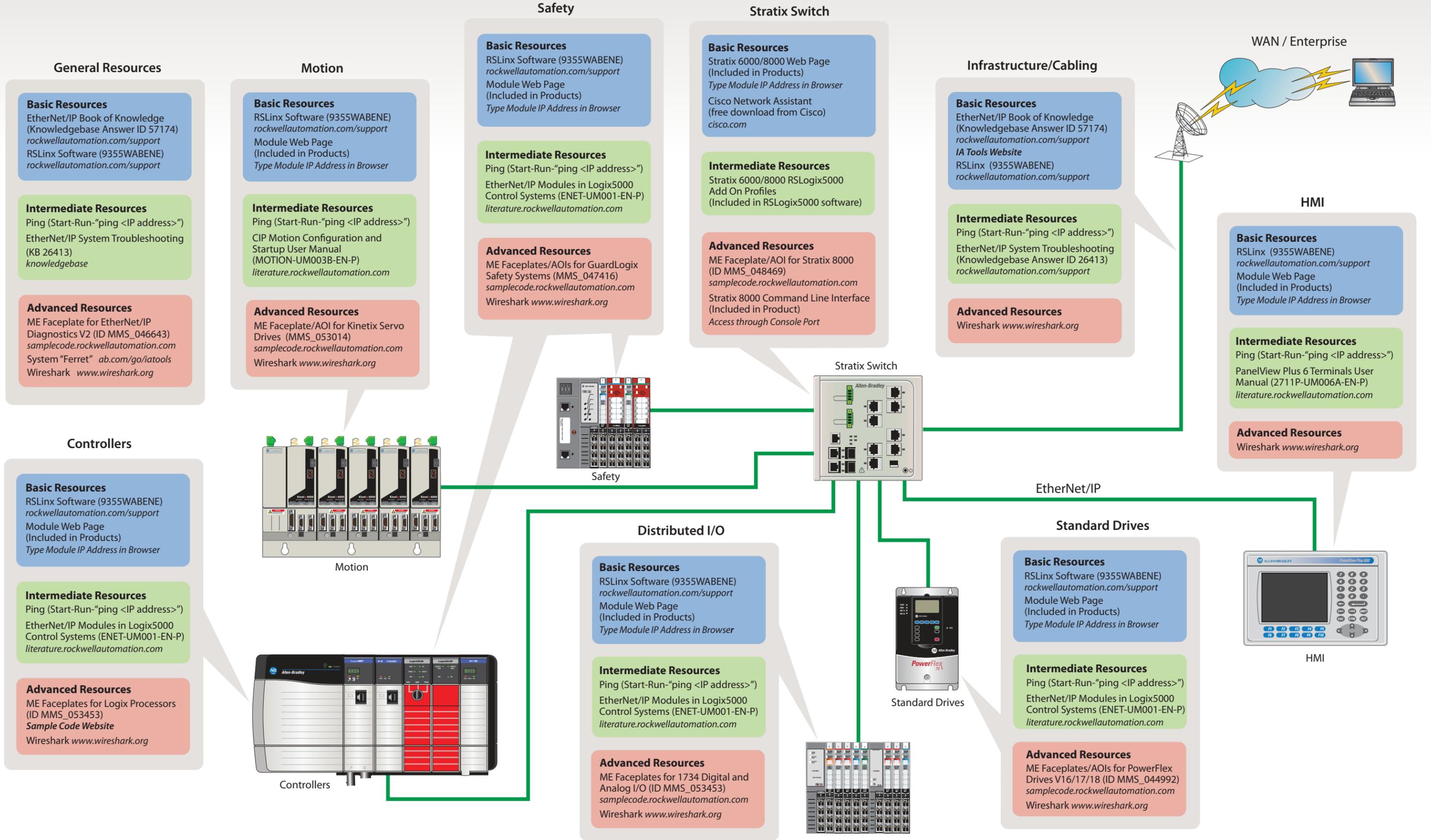
Where To Get It:

Included with your RSLogix5000 software.



TROUBLESHOOTING

These Tools & Documents Help You Troubleshoot Your EtherNet/IP System



General Resources

Basic Resources
EtherNet/IP Book of Knowledge (Knowledgebase Answer ID 57174) rockwellautomation.com/support
RSLinx Software (9355WABENE) rockwellautomation.com/support

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
EtherNet/IP System Troubleshooting (KB 26413) knowledgebase

Advanced Resources
ME Faceplate for EtherNet/IP Diagnostics V2 (ID MMS_046643) samplecode.rockwellautomation.com
System "Ferret" ab.com/go/iatools
Wireshark www.wireshark.org

Motion

Basic Resources
RSLinx Software (9355WABENE) rockwellautomation.com/support
Module Web Page (Included in Products)
Type Module IP Address in Browser

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
CIP Motion Configuration and Startup User Manual (MOTION-UM003B-EN-P) literature.rockwellautomation.com

Advanced Resources
ME Faceplate/AOI for Kinetix Servo Drives (MMS_053014) samplecode.rockwellautomation.com
Wireshark www.wireshark.org

Safety

Basic Resources
RSLinx Software (9355WABENE) rockwellautomation.com/support
Module Web Page (Included in Products)
Type Module IP Address in Browser

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
EtherNet/IP Modules in Logix5000 Control Systems (ENET-UM001-EN-P) literature.rockwellautomation.com

Advanced Resources
ME Faceplates/AOIs for GuardLogix Safety Systems (MMS_047416) samplecode.rockwellautomation.com
Wireshark www.wireshark.org

Stratix Switch

Basic Resources
Stratix 6000/8000 Web Page (Included in Products)
Type Module IP Address in Browser
Cisco Network Assistant (free download from Cisco) cisco.com

Intermediate Resources
Stratix 6000/8000 RSLogix5000 Add On Profiles (Included in RSLogix5000 software)

Advanced Resources
ME Faceplate/AOI for Stratix 8000 (ID MMS_048469) samplecode.rockwellautomation.com
Stratix 8000 Command Line Interface (Included in Product)
Access through Console Port

Infrastructure/Cabling

Basic Resources
EtherNet/IP Book of Knowledge (Knowledgebase Answer ID 57174) rockwellautomation.com/support
IA Tools Website
RSLinx (9355WABENE) rockwellautomation.com/support

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
EtherNet/IP System Troubleshooting (Knowledgebase Answer ID 26413) rockwellautomation.com/support

Advanced Resources
Wireshark www.wireshark.org

WAN / Enterprise

HMI

Basic Resources
RSLinx (9355WABENE) rockwellautomation.com/support
Module Web Page (Included in Products)
Type Module IP Address in Browser

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
PanelView Plus 6 Terminals User Manual (2711P-UM006A-EN-P) literature.rockwellautomation.com

Advanced Resources
Wireshark www.wireshark.org

Controllers

Basic Resources
RSLinx Software (9355WABENE) rockwellautomation.com/support
Module Web Page (Included in Products)
Type Module IP Address in Browser

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
EtherNet/IP Modules in Logix5000 Control Systems (ENET-UM001-EN-P) literature.rockwellautomation.com

Advanced Resources
ME Faceplates for Logix Processors (ID MMS_053453)
Sample Code Website
Wireshark www.wireshark.org

Distributed I/O

Basic Resources
RSLinx Software (9355WABENE) rockwellautomation.com/support
Module Web Page (Included in Products)
Type Module IP Address in Browser

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
EtherNet/IP Modules in Logix5000 Control Systems (ENET-UM001-EN-P) literature.rockwellautomation.com

Advanced Resources
ME Faceplates for 1734 Digital and Analog I/O (ID MMS_053453) samplecode.rockwellautomation.com
Wireshark www.wireshark.org

Standard Drives

Basic Resources
RSLinx Software (9355WABENE) rockwellautomation.com/support
Module Web Page (Included in Products)
Type Module IP Address in Browser

Intermediate Resources
Ping (Start-Run-"ping <IP address>")
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Advanced Resources
ME Faceplates/AOIs for PowerFlex Drives V16/17/18 (ID MMS_044992) samplecode.rockwellautomation.com
Wireshark www.wireshark.org

These Tools & Documents Help You Troubleshoot Your EtherNet/IP System

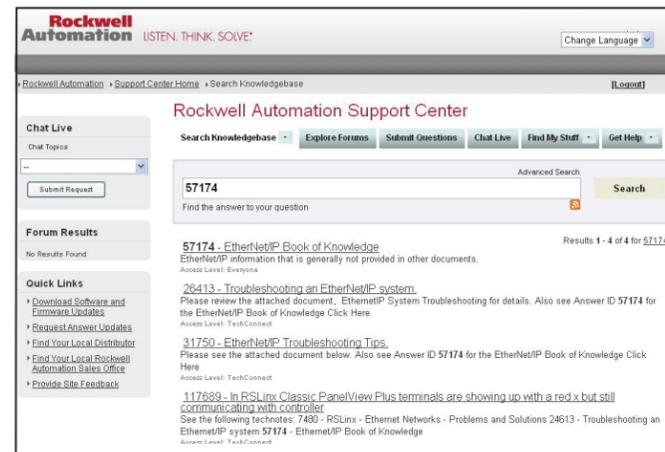
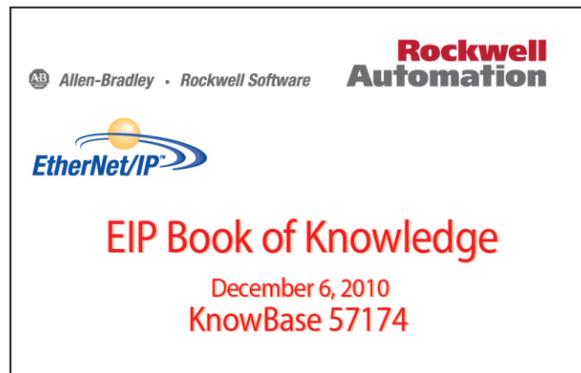
EtherNet/IP Book of Knowledge

What It Is:

A reference document that contains information on a variety of EtherNet/IP topics, including troubleshooting your network.

Where To Get It:

Available for download from the Technical Support Knowledgebase...



rockwellautomation.com/support

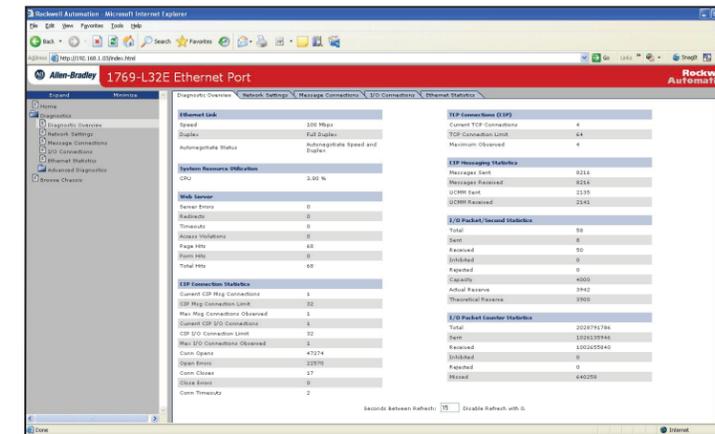
Product Web Pages

What It Is:

Each EtherNet/IP product has a web page with critical information you need to troubleshoot your system.

Where To Get It:

Included with the products. All you need is your web browser and the IP address of the product to access.



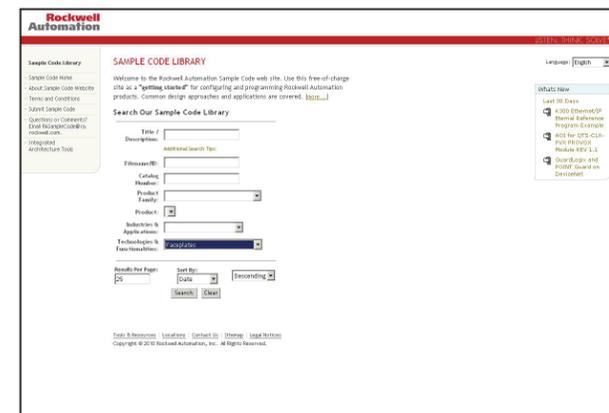
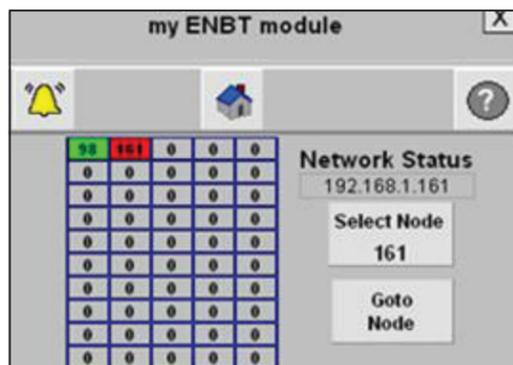
Faceplates

What It Is:

Faceplate/AOI sets that access existing diagnostic information in EtherNet/IP products to assist in the troubleshooting of your system.

Where To Get It:

Available for download from the Sample Code Library.



samplecode.rockwellautomation.com

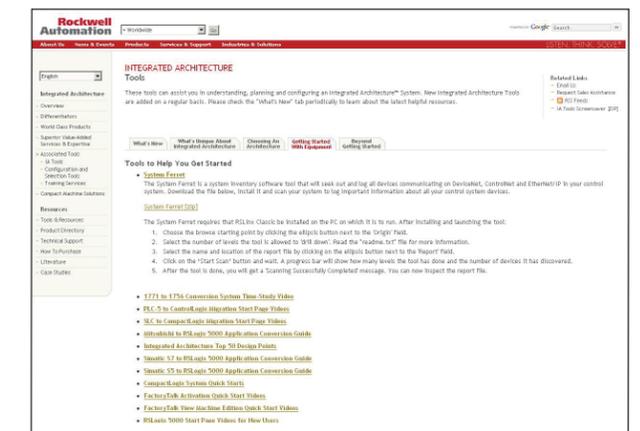
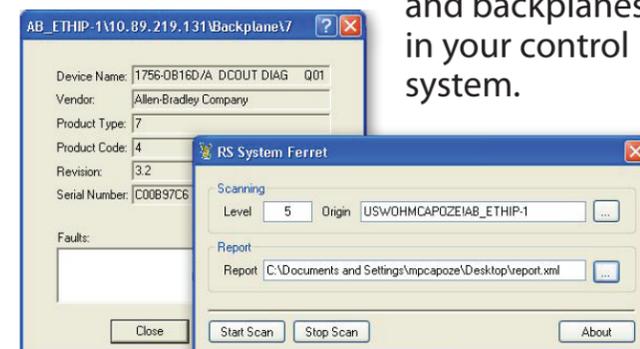
System "Ferret"

What It Is:

A system inventory software tool that will seek out and log all devices communicating on your EtherNet/IP network plus many of the other networks and backplanes in your control system.

Where To Get It:

Available for download from the Integrated Architecture Tools site...



ab.com/go/iatools