

ETHERNET/IP ADAPTER SOURCE CODE STACK

KEY FEATURES

- ▶ 100% ANSI C-based source code written in-house by our EtherNet/IP experts
- ▶ Fully compatible with Windows, Linux or RTOS-enabled hardware and software platforms
- ▶ Compatible with all certified EtherNet/IP Scanners
- ▶ No-nonsense single-family product licensing with no royalties
- ▶ Easy-to-use single task integration
- ▶ Support for implicit class 1 cyclic I/O, explicit class 3 and UCMM
- ▶ Maintained to current ODVA certification

EtherNet/IP Adapter Source Code Development Kit

Royalty-Free Source Code for Embedded Devices

Looking to add EtherNet/IP to your device? With RTA's development kit, you can ship an unlimited number of devices with no ongoing royalties or hidden fees.

Trusted in thousands of real-world applications, this kit has been enabling devices like PLCs, VFDs, barcode readers, I/O blocks and more for over two decades. It's market-tested, reliable and built for demanding industrial use.

What's Included in the Kit?

Everything you need to EtherNet/IP-enable your device—fast:

- Royalty-free ANSI-C source code
- All required EtherNet/IP objects
- Sample applications for Windows and Linux
- Sample object models and EDS generation tools
- Full documentation and integration guidance
- Hands-on support from RTA's EtherNet/IP engineers

You could be shipping EtherNet/IP-enabled devices in weeks—not months.

How Integration Works?

The RTA stack handles all the heavy lifting—packet encoding, decoding, transport and required interfaces. You simply map your device data to the EtherNet/IP object structure (object/instance/attribute).

Why Choose an RTA Source Code Development Kit?

When you use an RTA Development Kit, you're getting more than just source code, you're gaining a protocol partner. Our EtherNet/IP experts work directly with you to design a solution tailored to your device and your goals.

Our source code is 100% developed in-house and has been deployed in hundreds of devices and over 100,000 applications. It's proven, reliable and built for embedded microcontrollers in demanding industrial environments.

SPECIFICATIONS

Operation Modes	I/O adapter
Message Support	Implicit class 1 cyclic I/O, explicit class 3 and UCMM supported
Maximum Data Transfer Supported	Up to 64K—maximum transfer size of most controllers is 496 bytes in each direction
Objects Included	Identity, Message Router, Connection Manager, Ethernet Link, TCP/IP Interface, Assembly and Support for User Defined Objects
Compatibility	All certified EtherNet/IP Scanners and Adapters (Including RA ControlLogix)
Certification	Certified to latest CT version. Over 200 end devices certified (standalone source cannot be certified)

PLATFORM REQUIREMENTS

Processor	Any
RTOS	None required, but compatible with most popular RTOS products
TCP/IP Stack Interface	Minimum 3 TCP, 2 UDP sockets
Memory	~64K flash, 16K RAM, < 1K NV (minimum deployment)
Compiler	Any ANSI-C compiler

API—APPLICATION PROGRAMMING INTERFACE

Configuration	Functional call interface
Explicit Message Interface	Function call interface—decoding of all EtherNet/IP data requests handled by user to enable modification or addition of user objects
Input Data Interface (data to scanner)	Buffer managed and filled by user application
Output Data Interface (data from scanner)	Buffer managed by user application and filled by EtherNet/IP with output assembly data

What Is the Development Process?

PICK YOUR PACKAGE

Not sure where to start? We'll help you decide whether to take our code and a consult, or send us your device and let us handle it all.

MEET YOUR ENGINEERDS®

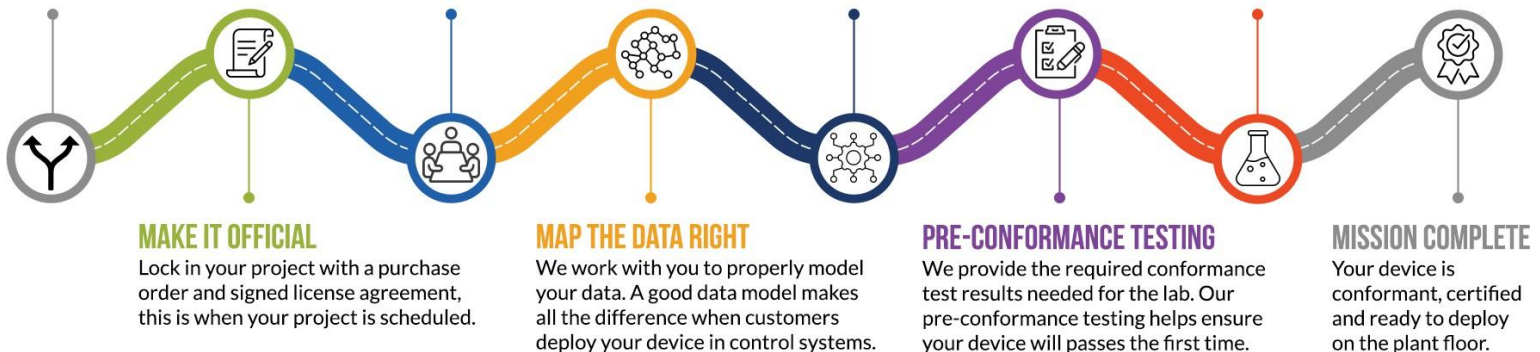
We'll walk through goals, project scope and next steps to make sure everyone's aligned and ready to roll.

STACK INTEGRATION

Depending on your path, we'll either help your team integrate our code—or we'll do the integration on your behalf. This step ends with a completed device deployment.

LAB TIME WITH BACKUP

You schedule with the conformance lab, our Engineerds represent your device at the lab.



Ready to Get Started?

Schedule a 30-minute call with one of our developers to walk through what it takes to integrate EtherNet/IP into your device. No pressure—just straight answers and expert guidance.

Email us at sales@rtautomation.com or call (800) 249-1612 to schedule your call.