



# EtherNet/IP Adapter Developers Kit

## EADK

Pyramid Solutions' NetStaX™ EtherNet/IP Adapter Developers Kit (EADK) enables you to quickly introduce EtherNet/IP Adapter Class functionality into your products & systems.

The EADK's EtherNet/IP Adapter Class software protocol stack provides I/O server, message server and message client functionality. The EADK software provides an Application Programming Interface (API) for using Common Industrial Protocol (CIP) via TCP/IP. The EADK software interfaces with your product's application software and socket level TCP/IP interface. The EADK consists of source code modules, example Adapter Class application code (demonstrating use of the EADK), programmer reference manuals, application notes and EDS & STC sample files. The EADK is distributed under a royalty free Software License Agreement.

For additional information and pricing, please call 248-549-1200 ext. 231 or email [gbeal@pyramidsolutions.com](mailto:gbeal@pyramidsolutions.com).

### EADK Features & Kit Description

#### ▪ EtherNet/IP Compatibility

- ✓ Enables EtherNet/IP Adapter Class functionality for your product
- ✓ UCMM (unconnected) Message Client & Server
- ✓ Class 3 (connected) Message Server
- ✓ Class 1 (I/O) Connection Server

#### ▪ Resource Utilization & Management

- ✓ All resources are initialized at stack startup
- ✓ No dynamic memory or thread allocation
- ✓ Runs on a single thread

#### ▪ Platform, OS & TCP/IP Stack Compatibility & Portability

- ✓ Uses a "Platform File" approach to simplify porting. All platform specific routines are separated into a single set of Platform Files to simplify porting
- ✓ Sample Platform Files included for Windows™ (NT/2K/XP), CE, Linux and Netburner (Coldfire Microprocessor embedded Target)
- ✓ Additional Platform File examples available for UNIX/AIX, CE 3.0 & 4.x, embedded targets (e.g. ColdFire micro, uC/OS & Interniche TCP/IP Stack)
- ✓ Stack core source is 'C' code for portability
- ✓ The EADK source code is designed using an object-oriented approach. EADK building blocks, such as TCP/IP sessions, CIP connections, Explicit requests, and all implemented CIP objects, including Assemblies are grouped into separate modules together with corresponding functionality. This allows for easy understanding and debugging of the source code

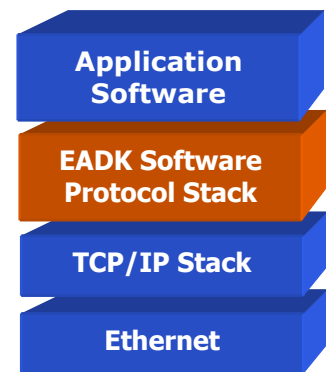
#### ▪ Supported / Included Objects

- |                  |                      |               |
|------------------|----------------------|---------------|
| ✓ Message Router | ✓ Connection Manager | ✓ Port        |
| ✓ Identity       | ✓ Ethernet Link      | ✓ TCP/IP      |
| ✓ QOS            | ✓ DLR                | ✓ * CIP Sync  |
| ✓ Assembly       | ✓ Custom Objects     | ✓ File Object |

#### ▪ Complete EADK Developers Kit includes:

- ✓ EtherNet/IP Adapter Class Protocol Stack Source Code
- ✓ Adapter Class Example Code (demonstrates use of the EADK)
- ✓ EADK Getting Started & Software Reference Manuals
- ✓ EADK C# & COM APIs (for using the EADK with VB6 & .NET)
- ✓ Sample STC file for conformance testing
- ✓ Sample EDS file, prepared to allow the EADK to be used as a Class1 connection target by remote tools, such as RSNetWorx for EtherNet/IP

- ★ **High Performance**
- ★ **Out of the box examples**
- ★ **Simplified Porting**
- ★ **Minimized Resource Use**
- ★ **Rich set of features**
- ★ **Scaleable**



EtherNet/IP is a registered trademark of ODVA

Windows is a registered trademark of Microsoft Corporation

\* IEEE1588 stack not included



**PYRAMID SOLUTIONS**