

## Benefits

- High performance
- Out-of-the-box examples
- Simplified porting
- Minimized resource
- Rich set of features
- Scalable
- Secure

## EIPA Contains

- EtherNet/IP Adapter Class Protocol Stack source code
- EIPA Getting Started, Software Reference Manuals, and Porting Guide
- Sample STC file for pre-conformance testing
- Sample EDS file
- Adapter Class example code
- Application notes with code samples
- EIPA Adapter DLLs (32 & 64bit) with C++ function call API, C# API for .NET applications, and legacy COM API for EIPA stack with Windows and VB6 applications



# NetStax™ EIPA

## ETHERNET/IP ADAPTER DLL KIT

Pyramid Solutions' EtherNet/IP Adapter DLL Kit (EIPA) enables you to quickly introduce EtherNet/IP Adapter Class functionality into your PC-based products and systems.

The EIPA's EtherNet/IP Adapter Class software protocol stack provides I/O server, message server, and message client functionality by interfacing with your product's application software and socket level TCP/IP interface.

Rest assured that your connections will be secured with EIPA. It adds secure connection capabilities that will allow your product to communicate with other devices that support conformant CIP Security EtherNet/IP functionality. Secure connectivity prevents bad actors from attempting to spoof connections to your products and spoofing devices on your network.

The EIPA stack seamlessly supports standard and secure EtherNet/IP connections based on the network configuration.\*

NetStax EIPA is distributed under a royalty free software license agreement.

## EIPA Features

### EtherNet/IP Compatibility

- ODVA CT20 Conformant
- Enables EtherNet/IP Adapter Class functionality for your product
- UCM (unconnected) message client and server
- Class 3 (connected) message server
- Class 1 (I/O) connection server
- CIP Security\*

### Resource Utilization and Management

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

### Platform, OS and TCP/IP Stack Compatibility and Portability

- "Platform file" approach separates routines into a single set of platform files to simplify porting
- Sample platform files included
- Stack core source is 'C' code for portability

### Supported/Included Objects

- Message router
- Connection manager
- DLR\*\*
- CIP Sync\*\*
- Port
- QOS
- Identity
- Ethernet link
- TCP/IP
- Assembly
- Custom user objects
- File object
- Class 0 support
- Energy object"
- LLDP

\* The EIPA-SECURE option is required to enable CIP Security features using the SSL Library you provide

\*\* These objects are for configuration only. No DLR or IEEE 1588 software or hardware is provided

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