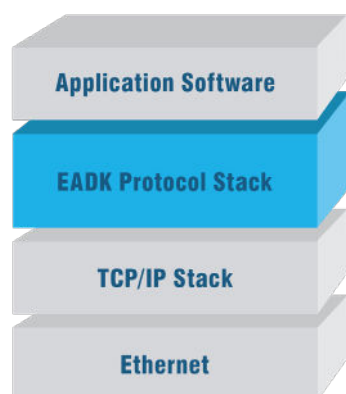


## Benefits

- Tested with ODVA CT19
- Field Proven for over 20 years
- Complete adapter class features
- High performance
- Simplified porting
- Minimized resource use
- Scalable

## EADK Contains

- EtherNet/IP Adapter Class Protocol Stack 'C' source code designed for portability
- EADK Adapter DLLs (32 & 64bit) with C++ function call API, C# API for Windows/.NET applications
- EADK Getting Started, Software Reference Manuals and Porting guide
- Adapter Class example code
- Sample Platform files
- Sample EDS files
- Sample SOC files for pre-conformance testing



**PYRAMID**  
SOLUTIONS

# NetStax™ EADK

## ETHERNET/IP ADAPTER DEVELOPERS KIT

### ENABLING CONFORMANT ETHERNET/IP CONNECTIVITY

Pyramid Solutions' NetStax™ EtherNet/IP Adapter Development Kit (EADK) enables you to quickly introduce conformant EtherNet/IP Adapter Class functionality for your products.

Our EADK stack provides complete Adapter Class functionality for EtherNet/IP connections and messaging.

The EADK stack provides a logical and manageable API for interfacing to your application code and utilizes the sockets interface of your products TCP/IP stack for TCP and UDP messaging.

The EADK comes with 12 months of download access to the latest version and built in phone/email tech support.

Additional services options are available to assist you with EtherNet/IP requirements, design, EADK Stack integration, pre-conformance testing and more.

Pyramid's EADK is distributed under a royalty free software license agreement.

## EADK Features

### EtherNet/IP Compatibility

- Tested with ODVA CT19
- Enables EtherNet/IP Adapter Class functionality
- UCM (unconnected) message client and server
- Class 3 (connected) message server
- Class 1 (I/O) connection server
- CIP Security Option available\*
- CIP Safety Option available\*\*

### Resource Utilization and Management

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

### 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 provided
- Stack core source is 'C' code for portability
- Included 32/64 bit DLLs are compatible with Windows 7, 8.x, 10 and 11 for developing Windows and .NET applications

- The EADK source code is designed using an object-oriented approach. It's building blocks, such as TCP/IP sessions, CIP connections, explicit requests, and all implemented CIP objects, including assemblies, are grouped into separate modules 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
- File object
- Class 0 support
- Energy object
- LLDP objects
- User Defined objects

\*EADK-SECURE Option required and an SSL you provide

\*\*ExDK-SAFETY-EADK Source Code Option to enable the EADK stack to work with HMS/IXXAT's CIP Safety solution purchased separately

\*\*\*Configuration object only. DLR Stack and Switch hardware not included

\*\*\*\*Configuration object only. IEEE 1588 stack not included

**EtherNet/IP™**