

# NetStaXfidoEADK

fido EtherNet/IP Adapter Developers' Kit

Pyramid Solutions has taken its field proven EtherNet/IP Adapter Developers' Kit (EADK) and partnered with Innovasic Semiconductor to develop an EtherNet/IP Adapter library for their advanced fido™ 32 bit Communications Controller. The fidoEADK provides a complete EtherNet/IP Adapter Class software protocol stack that implements an EtherNet/IP Adapter Class device over fido's NexGen™ socket-based TCP/IP interface. The fidoEADK provides EtherNet/IP Target / Server capability for I/O and connected Explicit messaging, along with UCMM Explicit Message Client and Server capability. The fidoEADK consists of software protocol stack library modules, Adapter example code, developer reference manuals, application notes, code samples, sample STC file for conformance testing and a sample EDS (Electronic Data Sheet) file.

The fidoEADK software library provides an Application Programming Interface (API) for using Common Industrial Protocol (CIP) via TCP/IP and its EtherNet/IP stack architecture allows for rapid implementation of EtherNet/IP Adapter Class devices. The fidoEADK is distributed under a royalty-free Site license.

## fidoEADK Features & Kit Description

### EtherNet/IP Compatibility

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

### Resource Utilization & Management

- Most resources are initialized at stack startup
- Minimal dynamic memory allocation
- Minimal footprint

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

- The fidoEADK was developed and tested on fido based platforms running the NexGen TCP/IP Stack so there is no porting or optimization required.
- The fidoEADK implementation takes advantage of the benefits of the fido microprocessor for determinism and performance.

### Supported / Included Objects

- |                      |                       |
|----------------------|-----------------------|
| ■ Message Router     | ■ Custom User Objects |
| ■ Identity           | ■ Port                |
| ■ Assembly           | ■ TCP/IP              |
| ■ Connection Manager | ■ File Object         |
| ■ Ethernet Link      |                       |

### Complete fidoEADK Developers Kit includes:

- EtherNet/IP Adapter Protocol Stack Library & fido Dual Port Libraries
- Example Code (demonstrates use of the fidoEADK)
- fidoEADK Software Reference Manual, App Notes & Sample Code
- Sample STC file for conformance testing
- Sample EDS file, prepared to allow the fidoEADK to be used as a Class1 connection target by remote tools, such as RSNetWorx for EtherNet/IP

- High performance
- No porting required!
- Full Adapter implementation
- Out of the box examples
- Rich set of features
- Designed for use on fido



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 RSNetWorX is a registered trademark of Rockwell Software  
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