

NetStaX**ESDK**

EtherNet/IP Scanner Developers' Kit

Pyramid Solutions' NetStaX™ EtherNet/IP Scanner Developers Kit (ESDK) allows you to quickly introduce EtherNet/IP Scanner Class and/or Adapter Class functionality into your products & systems.

The ESDK's EtherNet/IP software protocol stack provides I/O Server, I/O Client, Message Server & Message Client functionality. The ESDK software provides an Application Programming Interface (API) for using Common Industrial Protocol (CIP) over standard Ethernet. The ESDK software interfaces with your products application software and socket level TCP/IP interface. The ESDK consists of source code modules and APIs (for cross platform development), sample Scanner Class application code, reference manuals, application notes with code samples and example STC & EDS files.

The ESDK scanner stack can be configured via the Scanner's application code or through the network via the included Connection Configuration Object (CCO). Connections can be configured through Rockwell Software's RSNetWorx™ for EtherNet/IP or other tools capable of interfacing to the CCO.

The ESDK stack has been successfully used across a wide range of devices, from embedded platforms to PCs and Mid-Level computer systems. The ESDK is distributed under a royalty free software license agreement.

ESDK Features and Kit Description

EtherNet/IP Compatibility

- Enables EtherNet/IP Scanner Class functionality for your product
- UCMM (unconnected) messaging Client and Server
- Class 3 (connected) messaging Client and Server
- Class 1 (I/O) connection Client and Server

Resource Utilization and Management

- All resources initialized at startup
- No dynamic memory or thread allocation
- Stack runs on a single thread

Platform Compatibility and Portability

- All platform specific routines are separated into a single set of "Platform Files", simplifying the porting process to other platforms
- Sample Platform Files included for Embedded, Windows™, CE and Linux
- Core stack source is 'C' code for portability

Supported / Included Objects and New Features

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

Complete ESDK Developers' Kit includes:

- EtherNet/IP Scanner protocol stack source code for portability
- Example Scanner Class Application (binary and source provided)
- ESDK getting started, porting guide and software reference manuals
- ESDK C# and COM APIs for using the ESDK with VB6 and .NET applications 32 and 64 bit DLLs included
- STC file included for conformance testing. Easily modifiable for updated identity information, assembly instances and connection information.
- Sample EDS file that includes use of the ESDK as a Class1 connection originator by software tools, such as RSNetWorx for EtherNet/IP



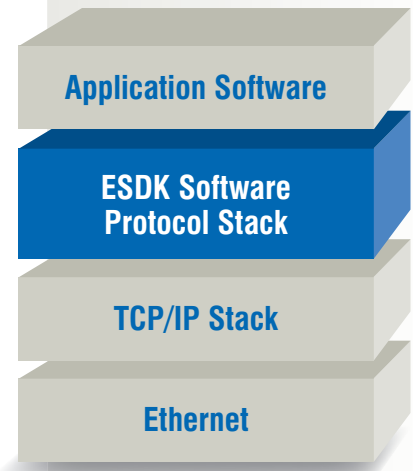
EtherNet/IP is a registered trademark of ODVA

RSNetWorX is a registered trademark of Rockwell Software

Windows is a registered trademark of Microsoft Corporation

*IEEE1588 stack not included

- High performance
- Out-of-the-box examples
- Portable stack code
- Minimized resource use
- Rich set of features
- Scalable



Application Software

ESDK Software Protocol Stack

TCP/IP Stack

Ethernet

Contact us.

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