



**IO-Link**

Universal · Smart · Easy

## SMI Composer / Parser in C#

### Overview

The structure of an SMI service arguments is described in the IO-Link Interface and System Specification V 1.1.3. This library implements intuitive and easy to use class definitions for creating and parsing standardized and vendor specific ArgBlocks.

Each class has Constructors for serializing and deserializing ArgBlock Payload and Header data, providing a human readable form of ArgBlock Payload data.

The library contains generic classes for:

- **Arg Block Parsing** – The interpreter constructor helps to decode (*parse*) the raw SMI Response ArgBlock data.
- **ArgBlock Composing** – The composer constructor helps to construct a new SMI Request ArgBlock data.

The serialized data can be easily used to send out SMI requests over any vendor specific interface. Deserialized responses can be used as human readable data for visualization and GUI application such as: console-based loggers, simple data acquisition applications, plotting etc.

### SMI Composer-Parser in C# Features

- Easy integration as NuGet package
- Available for all new .NET framework versions
- Implementation of Vendor Specific ArgBlock Extensions are possible

### Advantages

- Easy integration
- Simple binary format

### Deliverables

- User Guide
- NuGet package version
- Source code version
- DLL version
- Simple demo application to showcase usage