Siemens TI505 Connector

Simatic/TI 505 and compatibles devices

- Name: **SimaticTI505**
- Version: 1.0.1.0
- Protocol: CAMP and CAMP+Packed Task Code
- Interface: TCP/IP
- Runtime: .NET 4.8 (Windows)
- Configuration:
    - Devices / Protocols

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Overview

SiemensTI505 driver implements communication with Simatic/TI 505 devices. For TCP/IP communication, the driver uses both CAMP and CAMP Packed Task Code messaging protocols for efficient data transfer.

Communication Driver Information	
Driver name	SimaticTI505
Assembly Name	T.ProtocolDriver.SimaticTI505
Assembly Version	1.0.1.0
Available for Linux	False
Devices supported	Simatic/TI 505 and compatibles devices
Manufacturer	Siemens
Protocol	CAMP and CAMP+Packed Task Code
Interface	TCP/IP
Multi-threading	User configurable. Default is five threads to each network node
Max number of nodes	User defined
PC Requirements	Ethernet port

Supported Operands

DataType	Variables	Format	Read	Write
V	Memory	Short	**Yes**	**Yes**
M	Memory	Short	**Yes**	**Yes**
X	Discrete Input Packed	16bits	**Yes**	**Yes**
Y	Discrete Output Packed	16bits	**Yes**	**Yes**
C	Control Register Packed	16bits	**Yes**	**Yes**
WX	Word Input	Short	**Yes**	**Yes**
WY	Word Output	Short	**Yes**	**Yes**
TCP	Time/Counter Preset	Short	**Yes**	**Yes**
TCC	Time/Counter Current	Short	**Yes**	**Yes**
DSP	Drum Step Preset	Short	**Yes**	**Yes**
DSC	Drum Step Current	Short	**Yes**	**Yes**
DCP	Drum Count Preset	Short	**Yes**	**Yes**
STW	System Status Word	16bits	**Yes**	-
DCC	Drum Current Count	32bits	**Yes**	-

Channels Configuration

Protocol Options

The driver supports the following protocols:

- CAMP
- CAMP+Packed Task Code

Settings

TCP/IP channels:

- **NodeConnections**: Defines the maximum number of parallel requests that will be sent to each node (asynchronous communication)

Nodes Configuration

Station Configuration

TCP/IP channels:

- Station syntax: ***<IP address> ;<Port>***

Where :

- ***<IP address>***: IP address of the slave device in the network
- ***<Port>***: TCP/IP Port. Default is **1505**.

E.g.: ***192.168.1.101 ;1505***

Points Configuration

The syntax for the SiemensTI505 communication points is: *<DataType><Address>*

Where:

- ***<DataType>***: indicates the memory area. The valid values are:

DataType	Variables
V	Memory
M	Memory
X	Discrete Input Packed
Y	Discrete Output Packed
C	Control Register Packed
WX	Word Input
WY	Word Output
TCP	Time/Counter Preset
TCC	Time/Counter Current
DSP	Drum Step Preset
DSC	Drum Step Current
DCP	Drum Count Preset
STW	System Status Word
DCC	Drum Current Count

For more information about the valid data type, see the **Supported Operands** table aforementioned.

- ***<Address>***: indicates the data address in the memory area, from **1** to **65535**.

E.g.: ***V100*** (DataType = **V**, Address = **100**)

> **NOTE**
>
> Select **Single DataType** with **WordSwap** equal **true** (**Modifiers** column) for float-point format.

Driver Revision History

SimaticTI505 Revision History	
Version	**Notes**
1.0.1.0	Initial release on new documentation standards.

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