



eScada

v24.2.0
Drivers

eScada.Drivers.GeSrtp

eScada.Drivers.GeSrtip

OS availability

Windows, Linux, RaspBian

Atomic data type

Bit, 16 bit Word oriented protocol.

Hardware and documentation reference

www.geautomation.com

Parameters available in every section

Channel: none

| | | |
|---------|------------------------|---|
| Device: | IP address | It can be only IPV4 type Multiple addresses can be expressed using multiple rows or a comma. e.g. 192.168.1.10,192.168.1.11 |
| | TCP Port | A valid TCP port number. Default 18245 |
| | Reconnect timeout [ms] | Waiting time before a reconnection after COMM break-down |
| | Response timeout [ms] | Timeout interval used to wait for a response. |
| Group: | none | |
| Tag: | Chunk mode | None, no chunks System, tries to use a default value for chunks size. Custom, permits to set a custom size for every chunk. |
| | Bytes per chunk | Only with custom mode Amount of bytes, admitted by the protocol, for each communication frame to get or set data. It depends on the protocol and device you are using, please refer to the protocol documentation. 0=No data chunks used. |

Remarks for devices

The following attributes can be expressed for each device.

| | |
|---------------------|---|
| Bytes order actions | None, Swap bytes order, Swap bytes order in DWords, Swap words order, Swap bytes order in DWords then words order |
| String actions | None, Swap bytes in words |

Addressing

| Variable type | Type | Address type | chunks | Items |
|--|----------------------|---|--------|-------|
| Boolean | | | | |
| Single bit | Bit | %I, %Q, %M %T, %SA, %SB, %SC, %S, %G | NO | 1040 |
| Byte The number of items used declaring TAGs, must be a multiples of 2 | | | | |
| Unsigned 8 bit | UInt8 | %R | NO | 1008 |
| Signed 8 bit | Int8 | %L, %P | | |
| 16 bit | | | | |
| Unsigned integer 16 bit | UInt16 | %AI, %AQ, %R | YES | 504 |
| Signed integer 16 bit | Int16 | %L, %P | | |
| 32 bit | | | | |
| Unsigned integer 32 bit | UInt32 | %R %L, %P | YES | 152 |
| Signed integer 32 bit | Int32 | | | |
| Single precision 32 bit - (IEEE 754) | Float | | | |
| 64 bit | | | | |
| Unsigned integer 64 bit | UInt64 | %R %L, %P | YES | 126 |
| Signed integer 64 bit | Int64 | | | |
| Double precision 64 bit - (IEEE 754) | Double | | | |
| Strings The length used declaring TAGs, must be a multiples of 2 String bytes can be interpreted as ASCII, UTF-7, UTF-8, UTF-16 or UTF-32 encoding | | | | |
| Array of bytes | String | %R %L, %P | YES | (A) |
| Array of bytes. (Siemens S7 style) Array of bytes. (AllenBradley style) | S7String ABString | %R %L, %P | YES | (B) |
| (A) It depends on the string's length: e.g. if you want to read strings with a length of 20 chars each string, you can set a number of items of 1008 / 20 = 50 consecutive items. | | | | |
| (B) It depends on the string's length: e.g. if you want to read strings with a length of 20 chars each string, you can set a number of items of 1008 / (20+2) = 45 consecutive items. | | | | |

Remark: When using chunks, there are no limits on the amount of items.

Remarks

System Memory: %I, %Q, %M, %T, %SA, %SB, %SC, %S, %G
Task Memory (90-70 PLCs only): %L, %P

S7 Strings format

They have got two bytes at the beginning.
The first byte is for max allowed string length, the second one is for the real string length.
These types of strings can be declared with a length of 255 bytes max.

AB Strings format

They have got one word (16 bit) at the beginning which contains the string length.

Consecutive items

The address type and the amount of consecutive read/write items depends on the PLC model.