eScada

v24.2.1

Drivers

eScada.Drivers.GeSrtp

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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 %L, %P	NO	1008
Signed 8 bit	Int8			
16 bit				
Unsigned integer 16 bit	UInt16	%AI, %AQ, %R %L, %P	YES	504
Signed integer 16 bit	Int16			
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.