



V19.4.5
Drivers

eScada.Drivers.GeSrtip

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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 separated using , (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: none

Remarks for devices

The following attributes can be expressed for every device.

Bytes order actions None, Swap bytes (little endians ↔ big endians adjustment)
String actions None, Swap bytes in words

Addressing

Variable type	Type	Address type	Items
Boolean			
Single bit	Bit	%I, %Q, %M %T, %SA, %SB, %SC, %S, %G	1040
Byte The number of items used declaring TAGs, must be a multiples of 2			
Unsigned 8 bit	UInt8	%R	1008
Signed 8 bit	Int8	%L, %P	
16 bit			
Unsigned integer 16 bit	UInt16	%AI, %AQ, %R	504
Signed integer 16 bit	Int16	%L, %P	
32 bit			
Unsigned integer 32 bit	UInt32	%R %L, %P	152
Signed integer 32 bit	Int32		
Single precision 32 bit - (IEEE 754)	Float		
64 bit			
Unsigned integer 64 bit	UInt64	%R %L, %P	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	(A)
Array of bytes. (Siemens S7 style) Array of bytes. (AllenBradley style)	S7String ABString	%R %L, %P	(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.			

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.