

List of S30 / S40 and S90 CS31-Modules

And the way to configure them

With Control Builder Plus by using

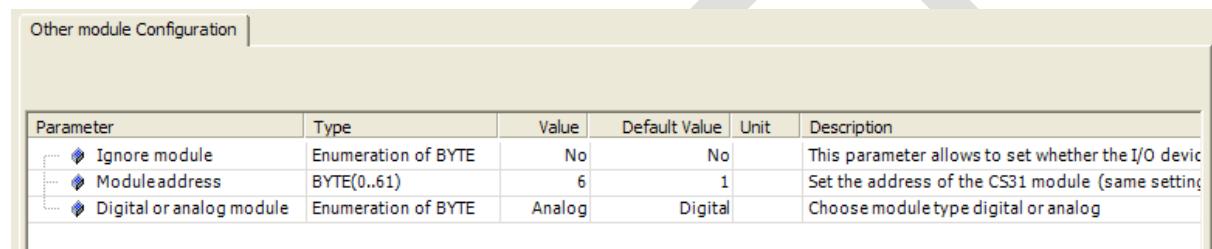
The feature „Other Module“

Module 07 AC 91

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
07AC91	Analog.	8	8	-	-	

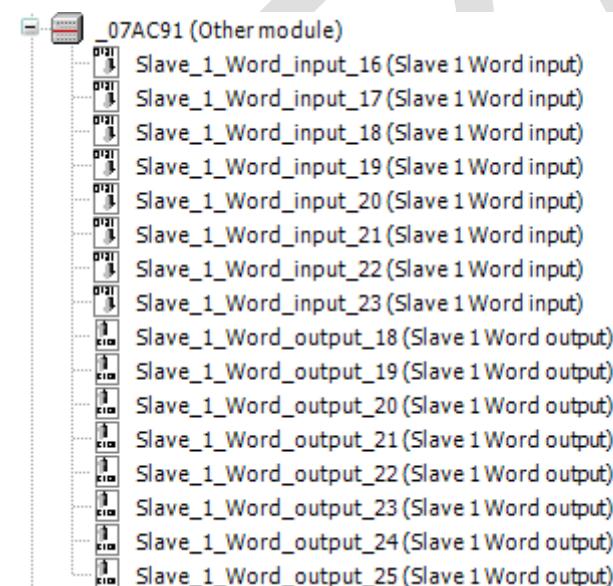
8 * Word_Input 8 configurable analog in/outputs
 8 * Word_Output

Device Configuration



Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Module address	BYTE(0..61)	6	1		Set the address of the CS31 module (same setting as the master).
Digital or analog module	Enumeration of BYTE	Analog	Digital		Choose module type digital or analog.

Input / Output Configuration



Module 07 AI 91

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
07AI91	Analog.	8	-	-	-	

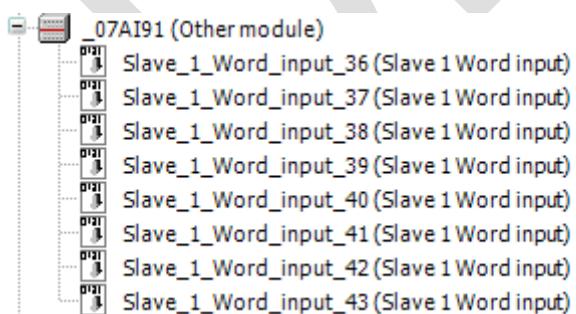
Word_Input 8 analog input

Word_Input
Word_Input
Word_Input
Word_Input
Word_Input
Word_Input
Word_Input
Word_Input

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Moduleaddress	BYTE(0..61)	8	1		Set the address of the CS31 module (same setting as the slave address).
Digital or analog module	Enumeration of BYTE	Analog	Digital		Choose module type digital or analog.

Input / Output Configuration



Module 07 DC 91

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
07DC91	Digital	-	-	3	2	

8Bit_Input 16 digital inputs
 8Bit_Input

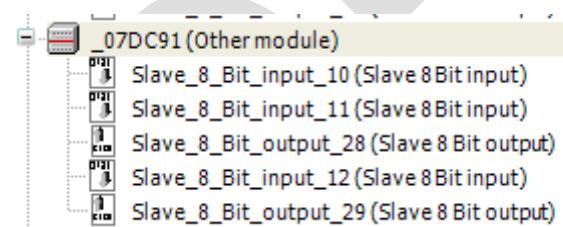
8Bit_Output 8 digital outputs

8Bit_Input 8 configurable in/outputs
 8Bit_Output

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Module address	BYTE(0..61)	18	1		Set the address of the CS31 module (same setting for all modules).
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog.

Input / Output Configuration



Module 07 DC 92

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
07DC92	Digital	-	-	4	4	

8Bit_Input 32 configurable digital in / outputs

8Bit_Input

8Bit_Input

8Bit_Input

8Bit_Input

8Bit_Output

8Bit_Output

8Bit_Output

8Bit_Output

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device
Module address	BYTE(0..61)	25	1		Set the address of the CS31 module (same setting
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog

Input / Output Configuration



Module 07 DI 92

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
07DI92	Digital	-	-	4	-	

8Bit_Input 32 digital inputs

8Bit_Input

8Bit_Input

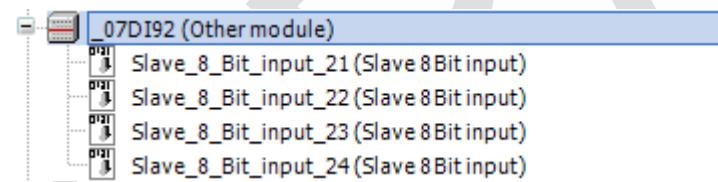
8Bit_Input

8Bit_Input

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Module address	BYTE(0..61)	25	1		Set the address of the CS31 module (same setting as the rack).
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog.

Input / Output Configuration



Module ICPO 08 H1

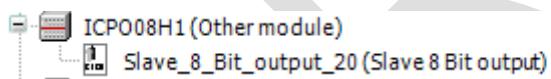
Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICPO08H1	Digital	-	-	-	1	

8Bit_Output 8 digital outputs

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device
Moduleaddress	BYTE(0..61)	4	1		Set the address of the CS31 module (same setting
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog

Input / Output Configuration



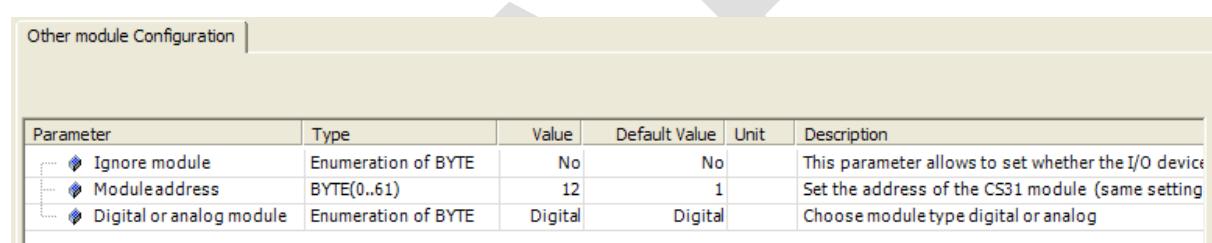
Module ICSK20 F1

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICSK20F1	Digital	-	-	2	1	

8Bit_Input 16 (12) digital inputs
 8Bit_Input

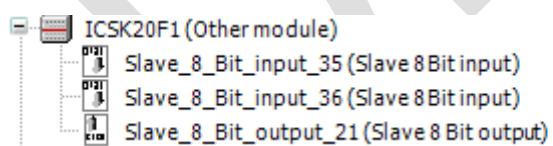
8Bit_Output 8 digital outputs

Device Configuration



Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device
Module address	BYTE(0..61)	12	1		Set the address of the CS31 module (same setting
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog

Input / Output Configuration



Module ICSC08 L1

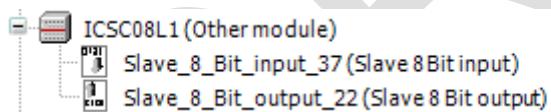
Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICSC08L1	Digital	-	-	1	1	

8Bit_Input 8 configurable digital in/ outputs
 8Bit_Output

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device
Moduleaddress	BYTE(0..61)	13	1		Set the address of the CS31 module (same setting
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog

Input / Output Configuration



Module ICSI16 E1

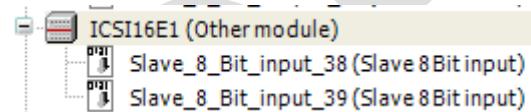
Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICSI16E1	Digital	-	-	2	-	

8Bit_Input 16 digital inputs
 8Bit_Input

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device
Moduleaddress	BYTE(0..61)	14	1		Set the address of the CS31 module (same setting
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog

Input / Output Configuration



Module ICSF08D1

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICSF08D1	analog	5	3	-	-	Fast Counter Module

Word_Input 5 analog inputs

Word_Input

Word_Input

Word_Input

Word_Input

Word_Input

Word_Output 3 analog outputs

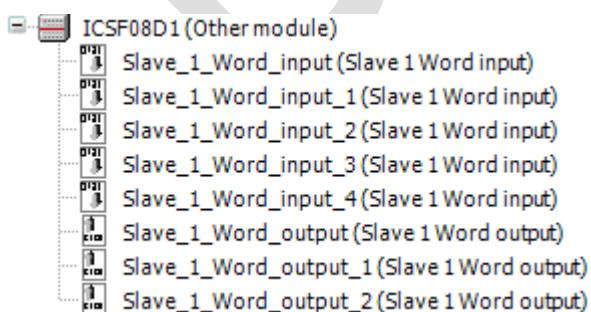
Word_Output

Word_Output

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Module address	BYTE(0..61)	4	1		Set the address of the CS31 module (same setting as the I/O device).
Digital or analog module	Enumeration of BYTE	Analog	Digital		Choose module type digital or analog.

Input / Output Configuration



Module ICMK14 F1 (without Digital Expansions)

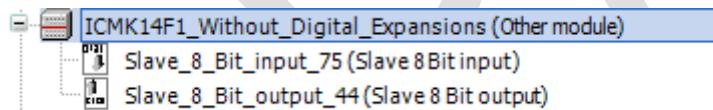
Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICMK14F1	Digital	-	-	1	1	

8Bit_Input 8 digital inputs
 8Bit_Output 8 digital outputs

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Moduleaddress	BYTE(0..61)	16	1		Set the address of the CS31 module (same setting as the rack).
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog.

Input / Output Configuration



Module ICMK14 F1 (with Digital Expansions)

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICMK14F1	Digital	-	-	2 + x	2 + y	

8Bit_Input 8 digital inputs
 8Bit_Input 8 digital inputs(1 dummy byte)
 *1)

8Bit_Output 8 digital outputs
 8Bit_Output 8 digital outputs(1 dummy byte)
 *2)

*: Additional digital inputs and outputs depend on the expansion module

*1): x * 8Bit_Input x * 8 digital inputs

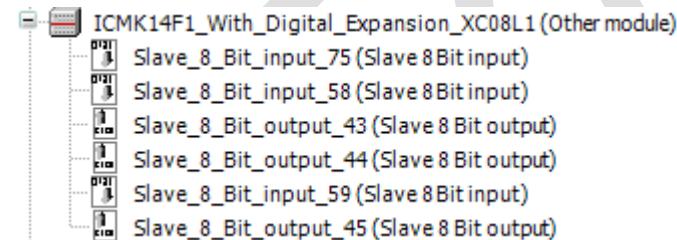
*2): y * 8Bit_Output y * 8 digital outputs

(Example: when XC08L1 is used as expansion module: x=1 and y=1)

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored or not.
Module address	BYTE(0..61)	16	1		Set the address of the CS31 module (same setting as the main module).
Digital or analog module	Enumeration of BYTE	Digital	Digital		Choose module type digital or analog.

Input / Output Configuration



Module ICMK14 F1 (with analog slaves)

If there are analog slaves, there is to configure another „Other Modul“ with the same module address, but „analog“ as type.

Module	Type	Word Input	Word Output	8Bit Input	8Bit Output	Comment
ICMK14F1	analog	X*	Y*	-	-	

*: Analog inputs and outputs depend on the expansion slaves

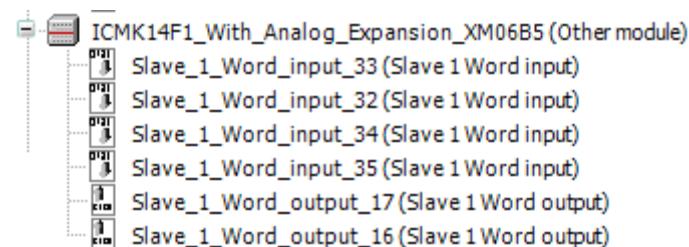
$Y * \text{Word_Output}$ analog outputs of expansion

(Example: when XM06B5 is used as expansion module: X=4 and Y=2)

Device Configuration

Other module Configuration					
Parameter	Type	Value	Default Value	Unit	Description
Ignore module	Enumeration of BYTE	No	No		This parameter allows to set whether the I/O device is ignored.
Module address	BYTE(0..61)	16	1		Set the address of the CS31 module (same setting as the main module).
Digital or analog module	Enumeration of BYTE	Analog	Digital		Choose module type digital or analog.

Input / Output Configuration



Faustregel Konfigurierung der digitalen Module bei ICMK14F1:

- Bei den digitalen Modulen wird über "Add device" für jedes digitale Modul 2 x das Device "Slave 8 input" und 2 x das Device "Slave 8 output" eingefügt.
- Die auf dem digitalen Modul vorhandene Inputs/Outputs sind beginnend ab dem ersten Device adressierbar.
- Sind auf dem digitalen Modul weniger oder gar keine Inputs/Outputs vorhanden, so sind die devices mit s.g. dummy bits/bytes aufgefüllt.

Siehe Beispiele:

