

# **SERIAL-PROFIBUS-INTERFACE | SPI 3**

Doc. Version 3.3

**for Fieldbus devices with serial interface**

ASCII | 3964R | RK512 | MODBUS RTU

**Overview of SPI 3 Module Application**

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## Module overview



### Note!

The SPI 3 Release 12 and higher uses an extended GSD file. You can download this GSD file from: <http://www.t-h.de>.

When using SPI3 devices with release lower than 12, you can only use the respectively released modules (see following lists).

## ASCII | 3964R | RK512 | (SPI 3 Release 12 and higher)

For module description, please turn to our online documentations:

- SPI 3 – SIMATIC S7 (SPI 3 Release 12 and higher)
- SPI 3 – controls other than SIMATIC S5/S7 (SPI 3 Release 12 and higher)

Module name	I/O area	Data transfer protocol
ASCII_Prm+_+_2W_i/o	2 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+_+_4W_i/o	4 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+_+_16W_i/o	16 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+_+_32W_i/o	32 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+_+_64W_i/o	64 words	unstructured ASCII driver, 3964R, RK512
The following modules are for manufacturer-specific applications only.		
Datalogic_DPD__8i/8o	8 bytes	unstructured ASCII driver (PROFIBUS)
Datalogic_DPD__12i/8o	12 bytes	unstructured ASCII driver (PROFIBUS)
Datalogic_DPD__16i/8o	16 bytes	unstructured ASCII driver (PROFIBUS)
Datalogic_DPD__20i/8o	20 bytes	unstructured ASCII driver (PROFIBUS)
Datalogic_DPD__24i/8o	24 bytes	unstructured ASCII driver (PROFIBUS)
Datalogic_DPD__32i/8o	32 bytes	unstructured ASCII driver (PROFIBUS)
Datalogic_DAD__8i/8o	8 bytes	unstructured ASCII driver (ANYBUS)
Datalogic_DAD__12i/8o	12 bytes	unstructured ASCII driver (ANYBUS)
Datalogic_DAD__16i/8o	16 bytes	unstructured ASCII driver (ANYBUS)
Datalogic_DAD__20i/8o	20 bytes	unstructured ASCII driver (ANYBUS)
Datalogic_DAD__24i/8o	24 bytes	unstructured ASCII driver (ANYBUS)
Datalogic_DAD__32i/8o	32 bytes	unstructured ASCII driver (ANYBUS)

## ASCII | 3964R | RK512 | (SPI 3 Release 11)

For module description, please turn to our online documentations:

- SPI 3 – SIMATIC S5/S7 (up to SPI 3 Release 11)
- SPI 3 – controls other than SIMATIC S5/S7 (up to SPI 3 Release 11)

Module name	I/O area	Data transfer protocol
ASCII_Prm+___2W_i/o	2 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+___4W_i/o	4 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+___16W_i/o	16 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+___32W_i/o	32 words	unstructured ASCII driver, 3964R, RK512
ASCII_Prm+___64W_i/o	64 words	unstructured ASCII driver, 3964R, RK512

## ASCII | 3964R | RK512 | (up to SPI 3 Release 10)

For module description, please turn to our online documentations:

- SPI 3 – SIMATIC S5/S7 (up to SPI 3 Release 11)
- SPI 3 – controls other than SIMATIC S5/S7 (up to SPI 3 Release 11)

Module name	I/O area	Data transfer protocol
MODUL_C1C1C101	2 words	unstructured ASCII driver, 3964R, RK512
MODUL_C1C3C301	4 words	unstructured ASCII driver, 3964R, RK512
MODUL_C1CFCF01	16 words	unstructured ASCII driver, 3964R, RK512
MODUL_C1Dfdf01	32 words	unstructured ASCII driver, 3964R, RK512
MODUL_C1FFFF01	64 words	unstructured ASCII driver, 3964R, RK512

The following modules are for manufacturer-specific applications only.

MODUL_C1414101_____
MODUL_C1434301_____
MODUL_C1858703_____
MODUL_C1858C03_____
MODUL_C1C2C303_____
MODUL_82000004_____
MODUL_C1CFCF07_____
MODUL_C1Dfdf07_____
MODUL_C1FFFF07_____

## MODBUS RTU (SPI 3 Release 16 and higher)

For module description, please turn to our online documentation:

- SPI 3 – all controls (SPI 3 Release 15 and higher)

Modul name	I/O area	Data transfer protocol
MODBUS_Master_Kopf	–	MODBUS RTU
MB_REG_WRITE_1B	1 byte	MODBUS RTU
MB_REG_WRITE_1W	1 word	MODBUS RTU
MB_REG_WRITE_2W	2 words	MODBUS RTU
MB_REG_WRITE_4W	4 words	MODBUS RTU
MB_REG_WRITE_8W	8 words	MODBUS RTU
MB_REG_WRITE_16W	16 words	MODBUS RTU
MB_REG_READ_1B	1 byte	MODBUS RTU
MB_REG_READ_1W	1 word	MODBUS RTU
MB_REG_READ_2W	2 words	MODBUS RTU
MB_REG_READ_4W	4 words	MODBUS RTU
MB_REG_READ_8W	8 words	MODBUS RTU
MB_REG_READ_16W	16 words	MODBUS RTU

## MODBUS RTU (SPI 3 Release 13 and higher)

For module description, please turn to our online documentations:

- SPI 3 – SIMATIC S5/S7 (SPI 3 Release 13 and higher)
- SPI 3 – controls other than SIMATIC S5/S7 (SPI 3 Release 13 and higher)

Module name	I/O area	Data transfer protocol
MODBUS_ex_bit_2W_i/o	2 words	MODBUS RTU
MODBUS_ex_bit_4W_i/o	4 words	MODBUS RTU
MODBUS_ex_bit_8W_i/o	8 words	MODBUS RTU
MODBUS_ex_bit16W_i/o	16 words	MODBUS RTU
MODBUS_ex_bit32W_i/o	32 words	MODBUS RTU
MODBUS_ex_bit64W_i/o	64 words	MODBUS RTU

# MODBUS RTU (up to SPI 3 Release 12)

For module description, please turn to our online documentations:

- SPI 3 – SIMATIC S5/S7 (up to SPI 3 Release 12)
- SPI 3 – controls other than SIMATIC S5/S7 (up to SPI 3 Release 12)

Module name	I/O area	Data transfer protocol
MODBUS_Prm____2W_i/o	2 words	MODBUS RTU
MODBUS_Prm____4W_i/o	4 words	MODBUS RTU

