

# SIEMENS

## Product data sheet

**6ES7870-1AB01-0YA0**

SIMATIC S7,  
 MODBUS SLAVE V3.1 SINGLE LICENSE F.1  
 INSTALLATION R-SW,  
 SW AND DOCU. ON CD, HW-DONGLE, CLASS A,  
 3 LANGUAGES (G,E,F),  
 EXECUTABLE U. STEP7 FROM V4.2,  
 REFERENCE-HW: CP341 AND CP441-2

Software	
Class A	Yes
Runtime software	
Target system	
Target system	CP 341 AND CP 441-2
Adjustable parameters	
Factor for the character delay time	1 to 10
Release of the memory areas writeable by the master is possible	Yes
Modem operation (ignore filler characters)	with/without
Number of work DB (for FB editing) possible	Yes
RS 485 operation for 2-wire connection	with/without
Slave address of the CP	1 to 255
Transmission rate	300 bit/s to 76800 bit/s; (TTY to 19200 bit/s)
Conversion of Modbus addresses to S7 data areas	Yes
Preassignment of receive circuit on application of the X.27 interface module	Yes
Character frame	Yes
Communication data	
CRC polynomial	$X^{16} + x^{15} + x^2 + 1$
Communications FB instance DB	FB 180, DB 180 (use of a multi-instance)
Master-slave coupling	SIMATIC S7 is Slave
Modbus protocol	with RTU format

implemented function codes	01, 02, 03, 04, 05, 06, 08, 15, 16
Conversion of Modbus addresses to S7 data areas	DB, memory bits, outputs, inputs, times, counters
V.24 control and signal cables	none
Character delay time	3.5 characters or multiples
<b>Authorization/licenses</b>	
Single license (EL)	Yes
<b>Documentation</b>	
<b>Languages</b>	
German	Yes
English	Yes
French	Yes
Status	Feb 27, 2012