

SIMATIC

C7-635 Control System

Manual

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The following supplement is part of this documentation:

No.	Designation	Drawing number	Edition
1	Product information	A5E00861679-01	07/2006

This manual is part of the documentation package with the order number:
6ES7635-1EA00-8BA0

This manual has the order number:
6ES7635-1AA00-8BA0

Edition 03/2004

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2.2 C7-635 Components and Accessories

Components

The following components are supplied with the C7-635:

- 1 C7-635 Touch (6ES7635-2EB01-0AE3) with sealing or
1 C7-635 Key (6ES7635-2EC01-0AE3) with sealing
- 1 grounding busbar, including two mounting screws and six shielding terminals
- 10 brackets

Additional Devices and Tools Required to Operate the C7-635

You need the following devices and tools:

- A Micro Memory Card (MMC) to store the CPU user program that is programmed with STEP 7. The C7-635 can only be operated with an MMC.
- A Compact Flash Card (CF Card) for the TP/OP if you require more than 32 Kbytes of memory for recipes or if the C7-635 is to be replaceable without a programming device/PC
- 24 V power supply
- Connector set (screw terminals or spring-type terminals) for C7 I/O with coding profiles and coding tabs
- C7-635 accessory for I/O expansion (directly on the device, or at a distance of 1.5 m), in case you would like to expand the I/O.
- A programming device or PC with:
 - An MPI interface and an MPI cable to generate the user program, or alternatively, a programming device/PC with the capability of reading and writing to a CF Card
 - An RS232 interface and RS232 cable (zero modem cable)
- For C7-635 Touch, STEP 7 as of Version 5.2 + Service Pack 1 + Hardware Update C7-635 Touch V2.0
- For C7-635 Key, STEP 7 as of Version 5.2 + Service Pack 1 + Hardware Update C7-635 Key V2.0
- The configuration tool ProTool, ProTool/Lite or ProTool/Pro starting with V 6.0 + Service Pack 1

Technical Specifications

A.1 Technical Specifications for Complete Apparatus

In this table, you will find the technical specifications for the complete apparatus.

Table A-1 Technical Specifications for C7-635

General Specifications	C7-635 Touch	C7-635 Key
Order No.	6ES7635-2EB01-0AE3	6ES7635-2EC01-0AE3
Dimensions Mounting dimensions	260 x 199 x 79 mm (WxHxD) 231 x 183 mm (tolerance: +1 mm)	260 x 274 x 80 mm (WxHxD) 231 x 257 mm (tolerance: +1 mm)
Mounting depth for 2-module I/O set:	144 mm (measured from the outer metal edge of the cutout)	
Mounting depth for 4-module I/O set:	195 mm (measured from the outer metal edge of the cutout)	
Weight	1,380 g	1,500 g
Display Active screen surface Resolution Colors	116 x 87 mm 320 x 240 Blue mode in 4 shades	
Keyboard	Resistive touch Two-key membrane keyboard	Matrix keyboard 61-key membrane keyboard

Power Supply	C7-635 Touch	C7-635 Key
Supply voltage (U_N) - Polarized input voltage - Voltage interruption (can be jumpered)	24 VDC; (20.4 VDC to 28.8 VDC, Safety Extra Low Voltage, SELV) The C7-635 has no integrated protection against high-energy interfering pulses in the μ s-range (surge pulse). Consult the <i>S7-300, CPU 31xC and CPU 31x: Hardware and Installation</i> manual for the required protective specifications. Yes ≥ 20 ms	
Current consumption	Typically 350 mA in no-load operation 1 A maximum	Typically 350 mA in no-load operation 1 A maximum
Inrush current	2 A for 70 ms	2 A for 70 ms
Power losses	14 W	14 W
Ungrounded configuration	Not possible	

Software	C7-635 Touch	C7-635 Key
TP/OP operating system platform	MS Windows CE	MS Windows CE

Product description	Previous order nr.	Firmware <	Previous Working memory	Previous Working memory retentive **	New order nr.	Firmware ≡	Working memory new	Working memory retentive ** new	Hard-ware update
C7-613	6ES7613-1CA01-0AE3	V2.0.12	48 KB	48 KB	6ES7613-1CA02-0AE3	V2.0.12	80 KB	64 KB	0109
C7-635 Touch	6ES7635-2EB01-0AE3	V2.0.12	64 KB	64 KB	6ES7635-2EB02-0AE3	V2.0.12	96 KB	64 KB	0109
C7-635 Key	6ES7635-2EC01-0AE3	V2.0.12	64 KB	64 KB	6ES7635-2EC02-0AE3	V2.0.12	96 KB	64 KB	0109
C7-636 Touch*	6ES7636-2EB00-0AE3	V2.0.12	128 KB	128 KB	6ES7636-2EB00-0AE3	V2.0.12	128 KB	128 KB	-
C7-636 Key*	6ES7636-2EC00-0AE3	V2.0.12	128 KB	128 KB	6ES7636-2EC00-0AE3	V2.0.12	128 KB	128 KB	-

* not affected by the extension of the memory

** Maximum size for retentive working memory for retentive data blocks