6.1 Communications support modules CS

6.1.1 Communications support module CS7

Order No. 6DD1662-0AB0

Description

The CS7 module is a **support module** for the following **communication modules:**

- SS4
- SS5
- SS52

Serial data transfer protocols (DUST, USS, PROFIBUS) can be implemented using the CS7 and the communication modules.

There is a dual port RAM on the CS7, via which the communication modules can transfer data with the CPU modules.

Features

- 3 plug-in recptacle for communication modules (X01 to X03)
- Dual port RAM with 16 Kbytes per communications module
- 2 **diagnostic LEDs** per plug-in compartment (H10/H11, H20/H21 , H30/H31) to display the status of the communications module; the significance of the LED depends on the particular communications module.
- Transfers the L-bus basic sampling time (for synchronization) on the communications module; this function is not used for SS4, SS5, SS52 communication modules.
- Transfers the clock interrupt from the communications module to the CS7 to set the real-time clock of a CPU module; this function is not used for SS4, SS5, SS52 communication modules.
- An interrupt signal on the L bus can be generated from the communications module. However, it must be ensured that only **one** interface module executes this function (configured). This function is not used for SS4, SS5, SS52 communication modules,.
- Test socket pair for each plug-in receptacle (X10/X11, X20/X21, X30/X31) to initiate a reset; only for test purposes! not for operation!
- L-bus connection

Interface to the communications module

The connection between the CS7 support module and the communications modules is established via the 48-pin socket connectors of the 3 plug-in receptacle X01, X02 and X03:

Pin	A	B	C
1	P5	P5	L_LOCK
2	AB1	AB2	AB3
3	AB4	AB5	AB6
4	AB7	AB8	AB9
5	AB10	AB11	AB12
6	L_RESET	CTCLK	AB13
7	DB0	DB1	DB2
8	DB3	DB4	DB5
9	DB6	DB7	DB8
10	DB9	DB10	DB11
11	DB12	DB13	DB14
12	DB15	L_DEN	L_CSMSB
13	L_INTDPR	DT_L_R	L_CSLSB
14	L_RDYDPR	L_LED1	L_LED2
15	P15	N15	L_INTUHR
16	M5	M5	M5

6.1.1.1 Application information and noise immunity

- operation **without fan** is possible
- the **front panels** of the inserted communication modules must be connected to the CS7 front panel using the screen cable supplied!
- slot covers must be provided at empty receptacle.
- noise-immune operation is only possible if the module is tightly screwed into the subrack

Other information Further information on EMC and ambient conditions, refer to Section „General technical data“

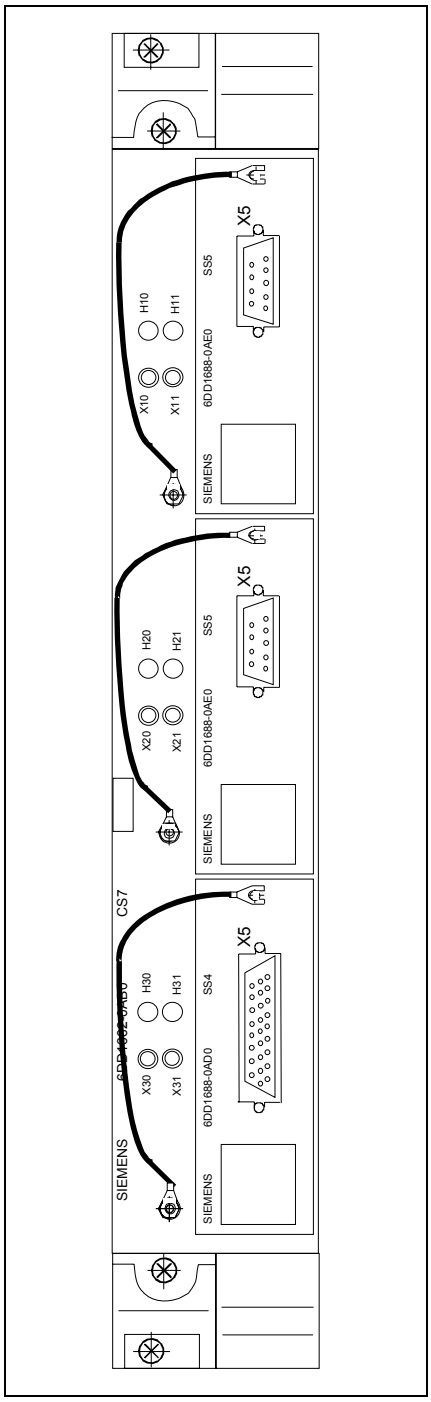


Fig. 6-1 CS7 front panel

6.1.1.2 Technical data

General data

No. of slots occupied	2
Dimensions W x H x D [mm]	40.28 x 233.4 x 220
Weight	Approx. 0.5 kg

Power supply

Rated voltage	min.	max.	**Typ. current drain**
+5 V	+4.75 V	+5.25 V	0.5 A + current drain of the interface modules
+15 V	+14.4 V	+15.6 V	Current drain of the interface modules
-15 V	-15.6 V	-14.4 V	Current drain of the interface modules