SIMATIC S7-300 CPU 313C-2 PTP

Product Data Sheet

6ES7313-6BE01-0AB0

CPU 313C-2 PtP Compact Controller

INTEGRATED WORK MEMORY	LOAD-MEMORY MEDIUM	S7 COUNTERS	S7 COUNTER RANGE
32 kB RAM	**MMC; up to 8 MB**	**256**	**0 to 999**

Siemens 6ES7313-6BE01-0AB0 is the CPU 313C-2 PtP compact controller for SIMATIC S7-300. It combines 32 kB of integrated work RAM with MMC-based load memory up to 8 MB. The point-to-point interface supports the documented 3964(R) and ASCII protocols, distinguishing this processor from the CPU 313C-2 DP version in the same manual.

01 TECHNICAL DATA

Integrated work memory	32 kB RAM
Load-memory medium	MMC; up to 8 MB
S7 counters	256
S7 counter range	0 to 999
S7 timers	256
S7 timer range	10 ms to 9990 s
Flag memory	256 bytes
I/O process image	128 input bytes; 128 output bytes
PtP protocols	3964(R); ASCII
PtP half-duplex rate	38.4 kbit/s

Siemens S7-300 CPU Data A5E00105475-02, September 2002; CPU 313C-2 PtP column, not DP-column data.

02 ADDITIONAL PRODUCT DATA

PtP full-duplex rate	19.2 kbit/s
Maximum PtP cable	1200 m
Frequency counter channels	3; up to 30 kHz
Supply voltage	24 V DC; 20.4 to 28.8 V
Typical power loss	10 W

03 PRODUCT FUNCTION

The CPU provides 256 S7 counters, 256 S7 timers and a 128-byte input and 128-byte output process image. Point-to-point communication permits 38.4 kbit/s half duplex or 19.2 kbit/s full duplex, with a maximum documented cable length of 1200 m. Three integrated frequency counter channels support up to 30 kHz. The 24 V DC input permits 20.4 to 28.8 V, and typical power loss is 10 W.

04 SYSTEM COMPATIBILITY

Set the point-to-point protocol, transmission mode and serial parameters for the connected peer. The 38.4 kbit/s half-duplex and 19.2 kbit/s full-duplex figures are different operating cases. Use the documented wiring and cable conditions rather than assigning the DP interface of the neighbouring CPU variant.

05 REFERENCE

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