

SIMATIC S7-1500

Product Data Sheet

6ES7551-1AB00-0AB0

Two-channel counting and position acquisition module

COUNTING CHANNELS	LOAD SUPPLY VOLTAGE	MAXIMUM UNLOADED SUPPLY CURRENT	BACKPLANE POWER CONSUMPTION
2	24 V DC; 19.2 to 28.8 V	75 mA	1.3 W

Siemens 6ES7551-1AB00-0AB0 is the TM PosInput 2 technology module for SIMATIC S7-1500 automation. It provides two channels for counting, measurement and position acquisition with compatible incremental or SSI absolute encoders.

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VERIFIED TECHNICAL DATA

Counting channels	2
Load supply voltage	24 V DC; 19.2 to 28.8 V
Maximum unloaded supply current	75 mA
Backplane power consumption	1.3 W
Typical power loss	5.5 W
Digital inputs	4
Digital outputs	4
Maximum current per digital output	0.5 A
Maximum total output current	2 A
Incremental encoder input frequency	1 MHz maximum

ADDITIONAL PRODUCT DATA

Quadruple-evaluation counting frequency	4 MHz maximum
SSI telegram length	10 to 40 bits
SSI clock frequency	125 kHz to 2 MHz
Encoder supply voltages	5.2 V $\pm 2\%$; 24 V output L+ -0.8 V
Maximum encoder supply current	300 mA per channel

DOCUMENTED USE SETTINGS

Automotive Production and Component Manufacturing: Automotive Component Manufacturing.

Packaging Production and Industrial Material Processing: Industrial Packaging Production.

Food Processing and Beverage Production Operations: Food Production and Processing.

SYSTEM COMPATIBILITY

6ES7551-1AB00-0AB0 belongs to the SIMATIC S7-1500 family and provides the documented two-channel counting and position acquisition module function. Its counting channels is 2; match this characteristic to the connected equipment and the project configuration.

PRODUCT EVIDENCE

Siemens SIMATIC S7-1500 manufacturer documentation; applicable pages 1, 2, 3, 4, 5, 6, 7

AMIKON PRODUCT SUPPORT

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