



## **Module,6ES7231-4HF32-0XB0**

URL:<https://www.sxplc.com/module-6es7231-4hf32-0xb0>

**Product data sheet**

General information	
Product type designation	SM 1231, AI 8x13 bit
Supply voltage	
Rated value (DC)	24 V
Input current	
Current consumption, typ.	60 mA
from backplane bus 5 V DC, typ.	90 mA
Power loss	
Power loss, typ.	1.5 W
Analog inputs	
Number of analog inputs	8; Current or voltage differential inputs
permissible input voltage for voltage input (destruction limit), max.	35 V
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	625 $\mu$ s
Input ranges	
<ul style="list-style-type: none"> <li>• Voltage</li> <li>• Current</li> <li>• Thermocouple</li> <li>• Resistance thermometer</li> <li>• Resistance</li> </ul>	Yes; $\pm 10$ V, $\pm 5$ V, $\pm 2.5$ V Yes; 4 to 20 mA, 0 to 20 mA No No Yes
Input ranges (rated values), voltages	
<ul style="list-style-type: none"> <li>• -10 V to +10 V               <ul style="list-style-type: none"> <li>— Input resistance (-10 V to +10 V)</li> </ul> </li> <li>• -2.5 V to +2.5 V               <ul style="list-style-type: none"> <li>— Input resistance (-2.5 V to +2.5 V)</li> </ul> </li> <li>• -5 V to +5 V               <ul style="list-style-type: none"> <li>— Input resistance (-5 V to +5 V)</li> </ul> </li> </ul>	Yes $\geq 9$ MOhm Yes $\geq 9$ MOhm Yes $\geq 9$ MOhm
Input ranges (rated values), currents	
<ul style="list-style-type: none"> <li>• 0 to 20 mA               <ul style="list-style-type: none"> <li>— Input resistance (0 to 20 mA)</li> </ul> </li> <li>• 4 mA to 20 mA               <ul style="list-style-type: none"> <li>— Input resistance (4 mA to 20 mA)</li> </ul> </li> </ul>	Yes 280 $\Omega$ Yes 280 $\Omega$
Thermocouple (TC)	
Temperature compensation <ul style="list-style-type: none"> <li>— parameterizable</li> </ul>	No
Analog value generation for the inputs	

