

AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7288-3AT08-0AA1
SIMATIC S7-200 SMART G2 EM AT08

MODULE	FUNCTION	CHANNELS	RESOLUTION
EM AT08	Thermocouple input module	8 thermocouple inputs	16 bit

Siemens 6ES7288-3AT08-0AA1 is a SIMATIC S7-200 SMART G2 EM AT08 thermocouple expansion module with eight isolated temperature or voltage input channels and model-specific cold-junction compensation.

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OFFICIAL PRODUCT PARAMETERS

Article Number	6ES7288-3AT08-0AA1
Product Designation	EM AT08
Module Type	Thermocouple input expansion module
Input Channels	8
Input Function	Thermocouple or voltage measurement
Temperature Resolution	0.1 deg C / 0.1 deg F
Voltage Resolution	15 bits plus sign
Dimensions	15 x 118 x 74.5 mm
Approximate Weight	0.08 kg
Power Consumption	0.525 W
Maximum Sensor Cable	100 m
Commodity Code	85389091

Source: Siemens S7-200 SMART G2 System Manual, 03/2026, A5E55110929-AB, EM AT08 model-specific specification, thermocouple selection, diagnostics and wiring pages.

02 TECHNICAL SUMMARY

Article Number	6ES7288-3AT08-0AA1
Product Type	EM AT08 AI 8 x 16 bit TC
Measurement Modes	Thermocouple or voltage
Supported Thermocouples	J, K, T, E, R, S, B, N, C, TXK/XK(L)
Noise Rejection	10, 50, 60 or 400 Hz
Input Impedance	≥ 10 Mohm
Field-to-Logic Isolation	707 V DC
Channel Isolation	120 V AC
Cold Junction Error	± 2.5 deg C
Configuration Software	STEP 7-Micro/WIN SMART V3
System Family	SIMATIC S7-200 SMART G2
Controlled Reference	A5E55110929-AB

03 DOCUMENT CONTROL

Use the current Siemens system manual, thermocouple tables, wiring instructions, configuration rules, grounding requirements, and project safety documentation. This Amikon reference does not replace controlled Siemens instructions.