

VERIFIED PRODUCT REFERENCE

Siemens 6ES5431-4UA12 Digital Input Module

Siemens 6ES5431-4UA12 is a SIMATIC S5 431 digital input module with 16 inputs and 24–60 V DC field service. It is documented for legacy S5-135U/155U installations.

Manufacturer Siemens	Product family SIMATIC S5-135U/155U Digital I/O	Exact model 6ES5431-4UA12
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Officially documented specifications

Module designation	431
I/O function	digital input
Channel capacity	16 inputs
Field electrical class	24–60 V DC
Isolation	16 isolated inputs
System bus current	5 V, 90 mA typical
Power dissipation	2.2–7.7 W
Dimensions (W x H x D)	20 x 255 x 195 mm
Weight	Approx. 0.4 kg
Permissible unshielded line	As documented in the Siemens system manual
Enable circuit	Front enable input/jumper arrangement
Host systems	SIMATIC S5-135U / S5-155U
Input frequency	100 Hz max.
Typical input delay	3 ms
Rated input current	4.5–7.5 mA
Shielded line length	1000 m max.

INSTALLATION AND PROCUREMENT REFERENCE

6ES5431-4UA12 application guidance

6ES5431-4UA12 is the Siemens SIMATIC S5 431 digital input module documented with 16 inputs. The field-side electrical class is 24–60 V DC, and the official manual identifies 16 isolated inputs isolation behavior.

The board transfers discrete states between the S5 process image and connected machinery wiring. Its channel grouping, enable circuit and diagnostic indications are integral to the installed cabinet design.

Retrofit work must preserve front-connector numbering, commons, supply polarity, enable jumper, addressing and external suppression. Similar 6ES5 modules can differ in voltage, width, current or protection and require a line-by-line comparison.

High-risk technical note

6ES5431-4UA12 requires the documented 24–60 V DC field arrangement; verify the enable circuit, commons and connector numbering before moving any conductor.

Manufacturer source record

- Siemens SIMATIC S5 System Manual, module sheet for 6ES5431-4UA12
- User-supplied Siemens official extract verified against the model text



Request a quotation for 6ES5431-4UA12

Email: info@apterpower.com

Phone: +86 18106909650

Include the complete nameplate, quantity, destination, and required delivery date.

Prepared from the manufacturer references listed above. Verify the latest revision and the complete installed configuration before replacement or commissioning.