Product dashboard

Siemens 6GF1710-3AA is the SIMATIC VS710 stand-alone vision sensor supplied with ProVision runtime. It combines a camera, processor, storage, digital I/O and PROFIBUS DP, VGA and RS232 interfaces for industrial inspection tasks.

Exact model	Product type	System	Processor
6GF1710-3AA	Vision Sensor	SIMATIC VS710	100 MHz 80486

PARAMETER	DOCUMENTED VALUE
Exact model	6GF1710-3AA
Product family	SIMATIC VS710
Software execution	ProVision runtime
Image format	Up to 768 x 512 pixels
Processor	100 MHz 80486
Main memory	16 MB DRAM
Storage	16 MB IDE flash disk
Image buffer	2 MB
Power supply	24 V DC, 20.4 to 28.8 V

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6GF1710-3AA

System and signal path

Siemens 6GF1710-3AA processes captured images inside one compact unit and exchanges inspection triggers, results and engineering data through its configured digital and serial interfaces.

Quality inspection

Runs configured image checks for presence, position or assembly verification.

Parts identification

Processes the retained ProVision program and returns its configured result.

PROFIBUS integration

Exchanges trigger and result data with the installed automation system.

Local engineering

Uses VGA and RS232 connections for controlled setup and diagnostic access.

SYSTEM POSITION	CONTROLLED RECORD
Identity	6GF1710-3AA
Host	SIMATIC VS710
Role	stand-alone industrial image inspection and parts verification

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Technical data map

PARAMETER	VALUE
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PARAMETER	VALUE
Current consumption	480 mA typical / 600 mA maximum
Digital inputs	2 optically isolated, 24 V DC
Digital outputs	4 optically isolated, 24 V DC / 0.5 A
PROFIBUS DP	Up to 12 Mbit/s
RS232	Up to 115 kbit/s
Lens interface	C-mount
Mounting	M4 threads / 1/4-20 UNC / mounting bracket
Operating temperature	0 to 50 C

Configuration boundary

Preserve the exact SIMATIC VS710 relationship and every setting tied to 6GF1710-3AA.

Release boundary

Record diagnostics and a controlled test of stand-alone industrial image inspection and parts verification.

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Applications and service checks

1. Confirm 6GF1710-3AA and the SIMATIC VS710 ProVision execution before work.
2. Archive the inspection program, camera settings, I/O map and PROFIBUS address.
3. Place the machine and inspection result path in the approved maintenance state.
4. Isolate the 24 V supply and protect the lens and CCD opening from contamination.
5. Restore the C-mount lens, mechanical position, grounding and connector orientation.
6. Verify the 20.4-28.8 V DC supply before reconnecting digital I/O and PROFIBUS.
7. Load the retained ProVision program and compare live images, triggers and output states.
8. Run known good and known reject samples before releasing 6GF1710-3AA.

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6GF1710-3AA

Engineering FAQ and related products

What is integrated in Siemens 6GF1710-3AA?

The VS710 combines the camera, processor, image memory, flash storage and external interfaces in one stand-alone unit.

Which image size can Siemens 6GF1710-3AA process?

The documented ProVision execution supports image formats up to 768 by 512 pixels.

Which supply range applies to Siemens 6GF1710-3AA?

Use a 24 V DC SELV supply within the documented 20.4 to 28.8 V range.

How many digital I/O points does Siemens 6GF1710-3AA provide?

It provides two optically isolated digital inputs and four optically isolated 24 V DC outputs.

Related Siemens product pages

- Siemens 6ES7331-7KF02-0AB0 — View product page
- Siemens 6ES7531-7KF00-0AB0 — View product page
- Siemens 6ES7431-0HH00-0AB0 — View product page

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